# INTERNSHIP

# CHRONICLES

BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI

ज्ञानं परमं बलम्

PLACEMENT SEASON AY 2020-2021

RECRUITMENT PROCESS & INTERVIEW EXPERIENCES

# FOREWORD

Dear Students,

It gives us immense pleasure to present the SI Chronicles for the AY 2020-21. The document aims to provide you with the needed information to assist you in making important decisions related to your internships and academics. We have curated this chronicle by compiling the interview experiences of students who cleared the interview rounds of companies that visited our campus in the current year. This chronicle is by no means an exhaustive document enlisting all the students placed or all the companies that visited. The content here is from the student's perspective and thus can be very resourceful to aspirants as they gear up for the processes to come.

Please bear in mind that internships are an extremely volatile area and can change based on several factors, such as market conditions, recruiter relations, and business constraints. Kindly read through the document with the understanding that the trend for a specific year may not be the next year's trend, the rounds and processes conducted by a company in the upcoming years may also differ from the current year. Feel free to get in touch with us directly for any clarifications or write to us at placement@hyderabad.bits-pilani.ac.in.


All the Best!

Placement Team
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Company Name: Adobe

Eligibility: B.E CS, ECE, EEE, EnI

CGPA Cut-off: 6.5

Roles: Research Intern, Product Intern

Selects: 2, 6

Stipend: 1,00,000 per month

Selection Rounds: 2

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**Name:** Mrunalini Ramnath (Product Intern)

**Recruitment Procedure:**
- One test and one interview
- The test had MCQs based on OOP and DSA theory, maths, 2 coding questions - one of which was a dp question, and some logical and memory puzzles.
- The interview was focused on finding the level of your problem solving skills. The interviewer asked a question on random string generation with some constraints. The other question was based on finding if a string was unique given a list without using any STL. I was expected to create a structure that could do this. The focus was on the different kinds of approaches that can be taken instead of just giving a straightforward answer. The interviewer was giving hints to help out.

**Important CDCs and Elective Courses:**
I had taken OS and OOP as DELs so that helped me with the tests

**When did you start seriously preparing? How did you go about it?**
- I started preparing seriously in July. I tried to solve a few questions on interview bit everyday, covering a few questions from every bucket.
- I used gfg to refer to some specific problems whenever I got stuck. I found the YouTube playlists by Aditya Verma(questions) and mycodeschool(theory) to be really helpful for DSA considering I couldn't take up the course on campus. In addition to these I referred to gate Smashers on youtube and CS department slides for OOP and OS.

**What were some critical topics/skills essential for the process?**
DSA, OOP and some knowledge of OS and DBMS.

**What kind of projects did you work on that were helpful to your selection?**
I had a lot of web development experience from my PS 1 project as well as personal projects and fest work. I don't think this helped a lot but it gave us something to talk about at the beginning of the interview.

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## Sources to help in preparations:

- Geeksforgeeks, interviewbit, the leetcode 200 questions are great for learning and solving questions.
- Some YouTube channels that helped me include- mycodeschool, Aditya Verma, Gate Smashers

## Your suggestions to someone preparing to appear in this company?

Be very strong in your basics. They focus on solution complexity and the thought process behind using a particular data structure and not just the actual solution.

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**Name:** Purvika (Product Intern)

**Recruitment Procedure**

2 rounds (First round: Coding and general aptitude, Second Round: HR and Technical Interview)
- The first round was coding round which consisted 3 sections:
- First section was MCQs on aptitude and DSA basics. Consisted of logic and reasoning, output based MCQs and
- Second section consisted of coding questions.
- The Third Section was the writing section where we were supposed to write about our latest work and how it helped us grow, this was basically to grab the idea about our general technical knowledge.
- After clearing the first round next was an interview round which went on for 1.5 hours and questions related to resume, projects, general technical skills and coding questions were asked.

Online Test:
- First section: MCQs based on logic and reasoning, general aptitude, coding basics like determining output or error for given code snippet, complexity analysis, DBMS and OOPs concepts.
- Second section: Three coding questions based on implementation and understanding of various data structures where we had to complete the function with given parameters.
- Writing section: Short essay on our latest technical project

Interview:
- The interview started with general questions about my skills and projects which were mentioned on my resume.
- This was followed by questions based on sorting algorithms, time complexity derivation for merge sort, heap sort etc.
- Implementation of trees, min heap and max heap and their functions like insertion, deletion and ordering was asked next.
- Linked list and array, array vs vector trade offs.

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- Next I had to share my screen and write pseudo code for a given problem of sorting a sorted array consisting of positive and negative numbers based on their square in least time complexity. Further questions were based on this and changing various constraints.

**Important CDCs and Elective Courses:**
DSA, OOP, DBMS, OS

**When did you start seriously preparing? How did you go about it?**
- During my PS1 I started practicing coding from the very basics. Everyday I made a goal to do at least 1-2 questions and try to solve them all by myself. Initially I took a lot of time on each question and I had to look at the solutions in order to pass corner cases but with every such question I made sure to understand the logic used and this helped me further while solving problems since the same concepts came handy.
- I started interviewbit and made sure to do at least 1 question from each bucket and look at the rest of them and define a tough pseudo code just to see if I understood the topic.
- I read about DBMS and OOPs concepts from geeksforgeeks and also from the slides covered in lecture sessions.
- I solved company wise questions from geeksforgeeks practice and interviewbit, and read online test experiences of the same companies from gfg before each test.

**What were some critical topics/skills essential for the process?**
- Understanding data structures and the complexities of these for different functions is important because the code's entire time complexity can be managed with the right data structure.
- Sorting algorithms and how their complexities are derived.
- The most important thing lies in the understanding of the question, so asking about the question during the interview helps you get better knowledge of what to do and corner cases and the interviewer also gets an idea of your approach and guides you for the same.
- Trees and their implementation is also important.
- Soft skills are also important in putting forward a good impression.

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**What kind of projects did you work on that were helpful to your selection?**
- Other than the projects and assignments which were done as a part of CDCs, I also explored data science and neural networks. I worked on image recognition and data scraping to start with.
- Working with Unity and a project on Augmented Reality during my PS also turned out as a plus point for me because it's upcoming technology and is highly valued.

**Sources to help in preparations:**
Interviewbit covers almost all important topics required.
Company wise questions geeksforgeeks archive from geeksforgeeks practice is also beneficial.

**Your suggestions to someone preparing to appear in this company?**
Go through all topics from interviewbit and the basic concepts like sorting algorithms, STL functions and various data structures. Be confident and put forth your thoughts during the interview.

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**Name:** Divya Munipalle (Product Intern)

**Recruitment Procedure:**

Online test -
- There were 20 mcqs in cognitive assessment, 20 mcqs in technical, 2 coding questions and 3 gamified tasks.
- The first section had logical reasoning and aptitude.
- The technical assessment had conceptual questions from DSA, OOP, DBMS and OS.
- The first coding question was relatively simple and the second one was based on dynamic programming.
- In the gamified round, there were simple tasks like image rotation with a time limit of 1 or 2 seconds.

Interview -
- The interviewer started off by asking some questions about singleton class, its implementation and structure padding.
- He then asked me to write a code for the unbounded knapsack problem.
- After this, I was asked to give an algorithm for balancing unbalanced parenthesis.
- This was followed by some more conceptual questions on trees and linked lists. I was asked to predict the output for a code snippet, which was based on exception handling.

**Important CDCs and Elective Courses:**
DSA, OOP, DBMS, C programming, OS

**When did you start seriously preparing? How did you go about it?**
After my PS-1. I practiced questions on interviewbit and parallelly brushed up concepts from DSA and OOP, from gfg. Before attempting the online test or interview for a company, I used to go through the archives on gfg.

**What were some critical topics/skills essential for the process?**
DSA is very crucial to get through any coding round. I would say that OOP and DBMS come next.

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**Sources to help in preparations:**
Interviewbit, Leetcode and GeeksforGeeks.

**Your suggestions to someone preparing to appear in this company?**
Focus on getting a good grasp on data structures and algorithms, by practicing problems from all the areas. Be confident in the interviews and admit it if you don't know the answer to something. The interviewers are usually helpful and willing to give hints.

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**Name**: Siddhi Burse (Product Intern)

**Recruitment Procedure**

Online test
The online test had 4 sections :
- Cognitive Assessment (consisted of questions based on English language and numerical ability)
- Technical Assessment ( consisted of questions based on CS fundamentals, DSA, OOPS, SQL)
- Coding Assessment (2 coding questions)
- Gamified Assessment (simple game based on memory, speed and accuracy)

Online Interview
- The online interview started with the interviewer asking me to give a brief introduction of myself. It is recommended that students highlight their most challenging projects or any point which they wish to highlight to the interviewer in this introduction itself.
- After the interview, I was asked 1 coding question (DP) and 1 math/logical question. It is important to keep explaining your thought process so that the interviewer can assist you better and help you in case you are stuck.

**Important CDCs and Elective Courses:**
- Data Structures and Algorithms (DSA)
- Object Oriented Programming (OOPS)
- Database Management System (DBMS)

**When did you start seriously preparing? How did you go about it?**
- I started preparing in the summer break(May-June) before the SI drive started.
- I started by practicing the most asked interview questions (company-wise) available on geeksforgeeks.

**What were some critical topics/skills essential for the process?**
- Logical reasoning
- Good coding skills

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- Sound knowledge of important concepts from OOPS, DBMS.
- Good communication skills

**What kind of projects did you work on that were helpful to your selection?**
I had done a project involving construction of a compiler for ISRO's Aditya L1 mission in my first year break. I highlighted this project to my interviewer at the beginning of the interview itself. Along with this, I also mentioned my PS1 project.

**Sources to help in preparations:**
- GeeksforGeeks
- Leetcode
- Interviewbit

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**Name:** Pratyush Banerjee (Product Intern)

**Recruitment Procedure**

Online Test:
- MCQs on math topics (linear algebra - matrices, eigenvalues, probability, PnC), general aptitude and CS concepts (OOP and DSA related, time complexity, output of code snippets etc.)
- 2 relatively simple coding problems
- Essay on favourite project that I worked on

Interview:
- Finding the diameter of a binary tree
- Discussion on an OOP project that I mentioned in my resume
- Given a sentence reverse all words individually
- Given a list of strings group all the anagrams together
- General questions about ML as I mentioned an ML project in my resume

**Important CDCs and Elective Courses:**
DSA, OOPS, DBMS

**When did you start seriously preparing? How did you go about it?**
- I was familiar with competitive coding and had decent knowledge of DSA from lectures and assignments (2-2).
- I seriously started preparing when the semester (3-1) started in August. I followed the DSA material provided in the Training Group and participated in the Codeforces contests conducted by them.
- I referred to GeeksForGeeks to revise some common algorithms, OOP and DBMS. I also referred to Gururaj sir's slides for OOP and DBMS. I practiced standard interview questions from LeetCode later on.

**What were some critical topics/skills essential for the process?**
- Familiarity with various data structures and time complexity analysis
- Communicating your approach well while writing pseudocode (I was only asked to actually run the code for a simpler question in the interview)
- Strong grasp of OOP and DBMS concepts

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- Logical reasoning and math skills like linear algebra, probability and statistics

**What kind of projects did you work on that were helpful to your selection?**
- OOP course assignment
- ML course assignment and PS1 project based on ML

**Sources to help in preparations:**
GeeksForGeeks, Leetcode, Gururaj sir's slides for OOPS/DBMS, DSA notes

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**Name:** Prabhleen Kaur (Product Intern)

**Recruitment Procedure**

Online test
- MCQ's Aptitude or 11th 12th math
- Technical MCQs
- 2 coding question, one on strings one on DP
- Gamified, had puzzled to test attention and focus

Interview
- One question on mirror tree and modification, took around 15 minutes
- One question which was a variation of removing duplicates and optimizing it, 25 minutes
- I had to show her a dry run for both of them
- Oops questions were about inline functions, static keyword and singleton class. All discussed very briefly, not very detailed.
- Total was around 50 minutes

**Important CDCs and Elective Courses:**
I'm from Phoenix and I hadn't taken any CS electives before sitting for internships.

**What were some critical topics/skills essential for the process?**
DSA and OOPS.

**Sources to help in preparations:**
- Mainly InterviewBit and GFG. I did basic DSA courses from coursera in summers after 2-2 to get an overview of all topics involved.
- I binged OOPS lectures from NPTEL the week before my interview and they were super helpful. GFG company wise archives were also helpful; I tried solving most of the medium level questions from it.

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**Company Name : AlphaCare**

**Eligibility : B.E. All except C.S.E**

**CGPA cutoff: 0**

**Roles:Product Intern**

**Selects:4**

**Stipend: 15,000**

**Selection Rounds:4**

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**Name:** Nehal Kaura

**Recruitment Procedure:**

There were 4 rounds (resume selection, interview round, assignment, HR round)
About job profile, interests, company, case study, guesstimate, research assignment

**Important CDCs and Electives:**
- Finance courses.
- Some mech dels like Sustainable Manufacturing and Supply Chain Manufacturing.

**When did you seriously start preparing? How did you go about it?**

During the SI drive.I did some case study assignments and studied some books regarding consulting and APM roles.

**What are some critical topics/skills essential for the process?**
- Data Analysis
- Case Study Solving
- Solving Guesstimates

**What kind of projects did you work on that were helpful to your selection?**
Mainly case study projects and some finance projects

**Sources to help in preparation:**
Consulting books and case study books, APM roles books

**Your suggestions to someone appearing for this company?**
Be bold. Go through the case study solving assignments. You will have to be hard working and be quick with timelines. Work is interesting and brainstorming.

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**Company Name: Amazon**

**Eligibility: B.E. CS, ECE, EEE, ENI**

**CGPA Cut-off: 0**

**Roles:** Software Developer Intern

**Selects: 5**

**Stipend:  60,000 per month**

**Selection Rounds: 2**

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**Name:** Abhishek Khurana

**Recruitment Procedure:**

Round 1 (online coding test), this was divided into 4 sections:
- Code Debug: 20 mins to find and solve errors in 7 small code blocks.
- Coding Test: 70 mins to solve 2 DSA questions (1 LeetCode easy level, 1 LeetCode hard level)
- Work Styles Assessment: A basic assessment about work ethic, No time limit.
- Logical Ability: Similar to BITSAT logical reasoning section, focussed more on series completion.

Round 2 (Technical Interview):
- Most people were asked 2-3 questions, these were LeetCode medium to hard lvl problems. Some were also told to explain (or in some cases implement) a particular data structure.
- For my turn, they focused on DP and trees. This was followed by a brief talk about my projects.

For all the rounds, the questions asked were concise and direct without any back story.

**Important CDCs and Electives**
I was not able to get DSA but the questions were clearly focussed on DSA.

**When did you seriously start preparing? How did you go about it?**
I started preparing in the summer after 2-2 but I lost interest in about 14-15 days. By the time the SI drive started I was well versed with basic topics such as hashmaps, BSTs and greedy algos but I had not done a single question on DP, graphs and tries. After giving the online test for CodeNation in the SI drive I realized that the topics I knew were not enough so that was when I started preparing more seriously, it took me about 1 more week to prepare the above mentioned topics after which I was fairly comfortable with DSA.

**What are some critical topics/skills essential for the process?**
DSA is very important, the entire process is based on DSA.

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**What kind of projects did you work on that were helpful to your selection?**
I had worked on many large performance critical C++ projects (mostly on computer graphics and games). This was useful in both the rounds as they definitely take code quality into consideration. I also had experience with templates and template metaprogramming which I'm sure showed in the interview as I remember explaining code bloat due to templates etc.

**Sources to help in preparation:**
LeetCode!!! (Prepare enough to have a decent chance at solving a LeetCode hard problem).

**Your suggestions to someone appearing for this company?**
- If you mention any CS course on your resume (especially OS), be prepared to answer questions about it.
- Prepare enough to ensure that you are confident(but not arrogant) in the interviews. Stay calm during the interview, and talk about what you are thinking, as you formulate a solution.

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**Name:** Manu Gupta

**Recruitment Procedure:**
Online Test
- 7 Code debugging questions. Choice of languages were Java, C++, and C. Compiler was provided to test the code.
- 2 coding questions.
- Work Styles Assessment test - For each question two statements were given I had to choose which more represents my work style.
- 20 logical reasoning questions.

Interview (1Hr)
2 coding questions were asked. I had to code and dry run them.
- Swap Kth node from beginning with Kth node from end in a Linked List
- Implement stack using another data structure.

**Important CDCs and Electives**
Computer programming (CS F111) and DSA

**What are some critical topics/skills essential for the process?**
Data Structures and Algorithms. Being able to quickly reach an efficient solution. Explaining your code well and testing your code against corner cases. Writing clean code, almost close to what you would expect yourself to write if it were to go into production.

**Sources to help in preparation:**
- GeeksforGeeks
- InterviewBit
- LeetCode
- CodeChef
- DISCO/DSA assignments

**Your suggestions to someone appearing for this company?**
Read about Amazon's Leadership Principles.

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**Company Name: Arcesium**

**Eligibility: CS, ECE, EEE,EnI**

**CGPA Cut-off: 7.5+**

**Roles: Software Developer Intern**

**Selects: 3**

**Stipend: 1,00,000 per month**

**Selection Rounds: 4**

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**Name :** Nikhil Krishna

**Recruitment Procedure**
4, (online round, 2 technical rounds and HR)
DSA, OOP, DBMS and System Design.

**Important CDCs and Elective Courses:**
DSA, OOP, DBMS and Software Engineering.

**When did you start seriously preparing? How did you go about it?**
- I started preparing two months before the interview.
- I went through GeeksforGeeks top interview questions for OOP and DBMS, and didn't get asked anything unexpected in these courses.
- Make sure you're good at SQL. Leetcode for DSA and SQL. Grokking the System Design Interview, the Interviewer only questioned me on a basic level.

**What were some critical topics/skills essential for the process?**
I had to solve 4 problems in a 1 hour long interview (Round 3), you can't take too long to think about the logic, good typing speed helps.

**What kind of projects did you work on that were helpful to your selection?**
- Blockchain (cryptography course project)
- Mock Uber application (OOP course project)
- Plagiarism checker (IR course project)
- Search Engine (IR course project).

**Sources to help in preparations:**
Leetcode for SQL and DSA. Grokking the System Design interview for SD. GeeksforGeeks articles for OOP and DBMS.

**Your suggestions to someone preparing to appear in this company?**
I'd learn C++/python/javascript as soon as possible. You can't make your own Data Structures in the middle of the interview, Standard libraries in these languages are helpful. Grind those leetcode problems, you'll likely end up seeing some of those problems in your interview as well.

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**Company Name: Chalo**

**Eligibility: B.E. All**

**CGPA Cut-off: 0**

**Roles: Software Developer Intern**

**Selects: 2**

**Stipend: 30,000 per month**

**Selection Rounds: 2**

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**Name:** Abhishek Kumar

**Recruitment Procedure:**

Technical Interview:
- It was a virtual interview which started out by, interviewer asking me a simple DSA problem. He was interested in knowing best and worst case time complexity for the question and asked me to write pseudo code regarding the same in my preferred language.
- This was followed by questions related from OOPS, DBMS concepts. Problems related to Inheritance, Polymorphism, ER-Modelling, SQL Queries, DBMS Anomalies were asked. One has to be quite clear about all the fundamentals related to the above topics as the interviewer was asking cross-questions to any of the answers which I gave.
- He then focused on my resume and asked some simple questions related to the projects listed.

**Important CDCs and Electives:**
- Data Structures and Algorithms
- Database Management System
- Object Oriented Programming
- C Programming

**When did you seriously start preparing? How did you go about it?**
I started my preparation during my PS-1 (approximately 4th week of may). I used to solve 5-6 topic wise DSA problems daily on platforms like Leet-Code, Interview-bit.

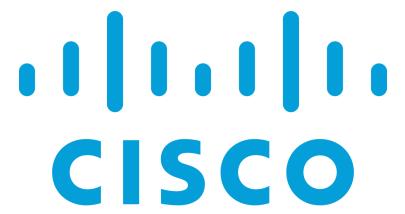**What are some critical topics/skills essential for the process?**
- DSA
- OOPS: Interfaces, Abstract Classes, Inheritance, Abstraction/Encapsulation
- DBMS: ER Modelling, SQL Queries
- Coding fundamentals

**What kind of projects did you work on that were helpful to your selection?**
During the resume shortlisting rounds only those students were shortlisted who had some good projects related to Data Science roles.

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**Company Name: Cisco**

**Eligibility: CS, ECE, EEE,EnI**

**CGPA Cut-off: 7**

**Roles: Software Engineering intern**

**Selects: 6**

**Stipend: 70,000 per month**

**Selection Rounds: 5**

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**Name:** Milind Anand

**Recruitment Procedure**
5 (Online Test + 4 Interview Rounds)
- The online test had two sections, the first had 15 MCQs which covered topics like OOP, DBS, DSA, OS, Computer Networks along with reasoning/aptitude type and output based questions.
- The second section had 2 coding questions (Apparently one of the questions had been featured in the selection process at IIT Roorkee a few weeks before they visited our campus, so it is advisable to acquire questions from other colleges if possible).

Interviews:
1st Round:
- The interviewer turned out to be an alumni, and hence he was familiar with the course structure. He first asked what was the importance of the Discrete Structures code and what I learnt from it, and how it was useful.
- He then moved onto DSA oriented questions, which were fairly simple here. I was asked to give an algorithm to determine whether the elements of a given array form an Arithmetic Progression or not.
- The interviewer then asked me to describe what the big-O notation signified. As I used the term 'vector' earlier, he then asked me why I preferred a vector over a regular array, and how I would implement it. I made a guess which turned out to be the correct answer. Finally, he asked me to implement the heap data structure.

2nd Round:
- In this round the interviewer went through my resume, and asked me about my PS-I and projects, and what I learnt from them, and big obstacles that you cleared.
- She also gave a few situations with respect to working in a team and dealing with issues that might crop up (for eg: what will you do if one person in your team slacks off?).

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3rd Round:
- The interviewer asked questions about the courses I had done till then, and what I learnt from them. He wanted to ask questions from OS and Computer Networks, but as they are courses that hadn't been covered extensively at that point of time, he only asked a basic question on daemon processes.
- He then asked me to give an algorithm to find the minimum number such that all numbers above it could be represented as $a*n + b*(n+1)$ for a given value of n. He then proceeded to ask a few questions on teamwork, and then asked questions on definite finite automata.

4th Round:
- This was the HR round. I was asked about why I wanted to join Cisco, what products Cisco offers, and which companies are their rivals. Then he asked me whether I wanted to take up a job after graduation or pursue my Master's degree, and then took in my location preferences.

**Important CDCs and Elective Courses:**
Data Structures and Algorithms is the most important course for Summer Internships. Apart from this, quite a few companies ask questions from OOP and DBS (primarily SQL queries).

**When did you start seriously preparing? How did you go about it?**
- I started quite late, in the first week of August, which was about 6 weeks before the internship season began. I would advise people to start as early as possible, probably during your PS-I (especially if it is WFH, as you will have a lot of time).
- I put in about a couple of hours a day studying and practicing questions on codeforces, leetcode and interviewbit. I also went through previously asked questions to get a better idea of what could be asked.

**What were some critical topics/skills essential for the process?**
Knowledge of various data structures and their implementations, and the ability to clearly convey your ideas to the interviewer.

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**Sources to help in preparations:**

Leetcode, GFG and InterviewBit are for preparing for interviews. Class notes of Prof. Gururaj were useful for OOP and DBS. Quite a few sites also provide 100 interview questions for OOP and DBS which can be useful for a quick revision.

**Your suggestions to someone preparing to appear in this company?**

- If you mention something in your resume, or use a term in an interview, be sure to actually know what you are talking about. Quite often follow up questions are asked on what you have written/said, and it will be a huge plus if you are able to showcase your in-depth knowledge on a topic.
- Also, have a few mock interviews, with a friend or a senior, before the actual interview. It is important, and helps to find your flow.

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**Name:** Mir Ameen Mohideen

**Recruitment Procedure**

Online test:-
- There were MCQ questions from Math(probability and statistics, linear algebra), Logic and reasoning, Computer Science concepts
- There were 2 coding questions (1 easy and 1 medium)

Interview Rounds:-
- In the 1st round questions were from DSA and OOP, one question was from a linked list, another related to strings, and one more which I don't remember. Some basic questions regarding OOP were also asked like inheritance and polymorphism and how it is implemented in java.
- In the 2nd round questions from DBMS were asked like ACID properties and distinguishing between SQL and NoSQL databases. After that, I was asked to explain about my PS1 and projects, and questions were asked about them.
- In the 3rd round I was again asked about my PS1 and projects followed by some behavioral questions(like how did you deal with challenges in the project, etc). After that, I was asked 1 puzzle(you can practice puzzles in Geeksforgeeks).
- The 4th round was the HR round, in which I was asked some questions to check or not whether the candidate has researched the company or not.

Each round was of about 60-70 minutes and also make sure to prepare a good introduction about yourself as it is asked in every round (it also helps in other companies interviews as well).

**Important CDCs and Elective Courses:**
DSA, OOP, DBMS

**When did you start seriously preparing? How did you go about it?**
- I started my preparation right after 2-2 ended. As we have PS1 after 2-2, I tried to allot some time for preparation after finishing my PS1 work. I started solving problems from leetcode and InterviewBit both have questions that are very similar to what is asked in interviews.

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- About 1-2 weeks before I started revising OOP, DBMS, and DSA concepts along with my projects.
- Finally, before each company's test/interview I went through their previously asked questions from GeeksForGeeks. Please do this step as sometimes the same or similar types of questions are asked.

**What were some critical topics/skills essential for the process?**
Coding skills(DSA) along with strong understanding of concepts in OOP and DBMS

**What kind of projects did you work on that were helpful to your selection?**
I had worked on a Blockchain project as part of the Cryptography course which attracted the interviewer's attention a lot, in every round I was asked about this project. I also had projects in web development which also became a topic of discussion in my interviews

**Sources to help in preparations:**
Leetcode and InterviewBit for coding(can also follow codeforces)
GeeksForGeeks for puzzles and previous year questions

**Your suggestions to someone preparing to appear in this company?**
Be thorough with the projects that you have mentioned on your resume and also with OOP and DBMS concepts. Coding questions were easy to medium.

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**Name:** Nithya Thokala

**Recruitment Procedure**

- Online test: MCQs related to aptitude, basic output questions, networking, and some other topics and a coding question.
- 3 Technical Interviews: I was asked to give a brief introduction about myself. I was grilled mostly about the projects mentioned in my resume. Other questions were related to the basics of DSA and OOPS which are linked to my projects.
- HR round: I was just asked for preference of role and location as they were offering multiple roles.

**Important CDCs and Elective Courses:**
DSA, OOPS, Discrete structures in Computer science, DBMS.

**When did you start seriously preparing? How did you go about it?**
- During PS1, I started preparing by solving questions on InterviewBit topic wise every week.
- I also solved a few questions on Leetcode.
- I prepared for OOPS and DBMS from gururaj sir notes.

**What were some critical topics/skills essential for the process?**
- Basics of DSA and OOPS.
- Relevant projects and a comprehensive knowledge of the included projects

**What kind of projects did you work on that were helpful to your selection?**
- Quantum distribution network was my PS-1 project and most of the questions were related to this project.
- OOPS and DBMS course projects.

You don't need too many projects in your resume. Just be thorough with the ones you mention.

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**Sources to help in preparations:**
- InterviewBit to solve problems related to all the topics.
- GFGs and leetcode for additional practice.
- GFGs archive to prepare for the interview rounds.

**Your suggestions to someone preparing to appear in this company?**
To clear the coding round one must be good at DSA. You must be really confident about the projects you mentioned in your resume as many questions will be posed related to them. You must be able to communicate your ideas effectively and be very confident with your answer.

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**Name :** Prasoon Baghel

**Recruitment Procedure**

Online Test Round:
- There were 30 MCQs and 3 Coding questions. The MCQs were mostly based on OOPS and DSA concepts and basic I/O questions. I solved all the MCQs, 2coding questions completely and 1 partially.

Interview:
- Technical Round: After the initial introduction I was asked 2 basic coding questions, one on Array Implementation and the other one on use of maps. After those I was asked some questions on OOPS and DBMS concepts.
- Managerial Round: In this round I was mostly asked about my projects and team work like the problems I faced while working on those and how I fixed them and how I collaborated with my other team members.
- Executive Round: In this round I was given a real life problem for which I was expected to come up with an approach for solving it and then its implementation. After that I was asked about some technologies which were mentioned in my skill set in the resume. After that he was interested in knowing the first approach which comes to my mind and my immediate reactions to the problematic situations he gave.
- HR Round: This round was pretty straightforward ( lasted for just about 5 mins). I was asked why I want to join this company and what I know about the company.

**Important CDCs and Elective Courses:**
I did not have any of these courses formally completed by that time but knowledge of OOPS, DSA, DBMS was critical.

**When did you start seriously preparing? How did you go about it?**
- I started learning DSA concepts sometime around April 2020. During my PS 1 and after that I practiced a lot of Interview Bit and LeetCode questions. I tried to finish at least 2-3 questions from every bucket on Interview Bit.
- Practicing questions is important rather than just learning the concepts. I gave a few Codeforces contests to get an idea on competitive coding as I didn't have

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any previous experience with it, though I had a little bit of development experience.

**What were some critical topics/skills essential for the process?**
- The most important thing was to come up with an efficient and optimised approach to solve a problem and devise an algorithm to solve it. With proper knowledge of DSA and OOPS concepts it became a bit easier to pen a solution approach to an algorithm.
- For the interviews, apart from DSA and OOPS, candidates were also expected to have good communication skills.

**What kind of projects did you work on that were helpful to your selection?**
I worked on developing the SWD Android mobile application and developed a Spring Boot Authentication Microservice during my PS 1. In my Executive Round I was asked a lot of questions including the functionalities, my approaches to fix various problems I faced, the times when I was stuck somewhere and how did I get out of it, etc.

**Sources to help in preparations:**
- Interview Bit
- LeetCode
- Geeks for Geeks
- Initial Chapters of Java-The Complete Reference
- Dynamic Programming (https://bit.ly/2PP42Pb)

**Your suggestions to someone preparing to appear in this company?**
- For this company, I would recommend having a good grasp on OOPS concepts and basic DSA. Go through questions asked in previous interviews of different companies and try to solve them. I would recommend practicing on Google Docs or pen and paper because they generally don't allow you to use your IDE. So try practicing without autocomplete.
- Make a good CV. It's okay if u dont have a lot of things to write, just make sure that you are able to answer any question which the interviewer picks up from your CV. Try solving questions first with a basic brute-force approach and then optimising your solution.

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- This will definitely help you in understanding what you need to do if you are stuck in similar situations. During the interviews listen carefully to everything the interviewer says. They often drop hints when you are stuck somewhere.

All the best!

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**Name :** Vamshi Kasam

**Recruitment Procedure**

- Round 1- Test
  2 Coding questions - One Dynamic Programming and second Graph traversal
  15 MCQs - DSA, OS and Networks based
- Round 2 - Technical Interview - Questions related to Operating Systems and
  Networks were asked and we can refuse to answer these questions as OS is
  done in 3-1 semester itself (or 4-1 for dualites) and Networks is done in the
  second semester (Tip: Don't be afraid to refuse to answer something you haven't
  studied before but explain them why you can't). The rest of the interview was
  questions on DSA and a few coding questions. Had to code 2 of them and giving
  the algorithm or technique was enough for the others.
- Round 3 - Technical Interview - Questions completely based on the projects
  given in the resume and about internships (PS1). Detailed explanation of the
  work done and learning experience from there was asked. Also a basic
  discussion on areas of interest.
- Round 4 - Managerial Round - Questions based on the area of interest I have
  mentioned in the previous round and also on the projects mentioned in the
  resume.
- Round 5 - HR Round - General questions related to the role I am applying for
  and location and stipend details (This round was just a formality).

**Important CDCs and Elective Courses:**
DSA, OOPS, OS, DISCO

**When did you start seriously preparing? How did you go about it?**
- I started my preparation in May. Initially I started by solving Problems bank on
  Codeforces (sorted by points) and gave codeforces daily contests(all eligible
  divisions) which helped a lot to solve questions in given time and also interesting
  to solve in the competitive environment.
- (Tip- Check the solutions after the contest is over even for the questions you
  solved correctly as a better solution might be given). Along with this I solved

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questions on InterviewBit which helped a lot for the interviews as 3-4 questions were repeated from here.

**What were some critical topics/skills essential for the process?**
Good practice on DSA. Theoretical knowledge in OOPS and OS(basics for this as it is 3-1 course).

**What kind of projects did you work on that were helpful to your selection?**
- I had only one project in Resume which was an OOP course project which was to build a web application.
- The other is my PS1 which was in app development. So, there weren't many projects in my resume but I had sound knowledge in these 2 (which was thoroughly tested by interviewers) and the interviewers were satisfied with my answers though I had only 2 projects.
- Tip- Please don't put any projects which you haven't worked on personally and if you don't have good knowledge at implementation level. Also, don't bluff about projects as interviewers can easily catch them.

**Your suggestions to someone preparing to appear in this company?**
All the 4 interviewers were friendly and gave enough time to answer questions so you can be a bit casual with them. Explain to them if you are not able to answer any questions. Use simple language. When asked about your projects or internships, have a discussion and make it interactive so that they can easily understand.

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# CODE NATION
## < Innovation Labs >

**Company Name: Codenation**

**Eligibility: B.E All**

**CGPA cut off: 7**

**Roles: Software engineering intern**

**Selects: 3**

**Stipend: 75,000 per month**

**Selection Rounds: 4**

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**Name:** Pranav Rajagopalan

**Recruitment Procedure**

Coding Round:
- There were 3 questions.
- The first was a fairly easy greedy problem.
- The second was a moderately tricky combinatorial problem that could be solved using either prime factorization or dynamic programming.
- The third was a tough graph problem that needed intuition into fairly advanced algorithms and ideas that usually appear in difficult competitive coding problems to solve. However you didn't need to solve the third question to qualify, just the first two problems were enough.
- Anyone with fairly strong preparation from Leetcode / Interviewbit should be able to solve the 1st problem and get partial on the 2nd problem, though getting full on it might be difficult.
- In general Codenation's problems are closer to competitive coding problems than most other interview problems, so if you have more time I would recommend practicing till you can solve Div2C/D level problems from Codeforces.

Interview 1:
- General discussion about stuff I had mentioned in my resume.
- This was followed by 10-15 mins of detailed discussion about one of the projects I had listed along with some questions about my choices while working on it, any changes I would make if I redid it today, etc.
- This round is lite if you have 1 or 2 decent projects and know them properly.
- Obviously don't mention anything in your resume that you are not confident about and absolutely DO NOT lie about anything in it.

Interview 2 :
- I was given a single question on the DSA about identifying an element in an array for the entire interview.
- I first gave the trivial solution and was asked to optimize it, while using no additional space.

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- I realized I had seen practically the same question somewhere else, told my interviewer about that and explained the solution (using sqrt decomposition in O(n sqrt(n))).
- I was then asked to solve it in O(n) time if I could assume the data was stored in a structure of my choice instead of an array. This could be solved using a linked list and performing cycle finding in it.
- The interviewer then proposed a minor modification which made the problem solvable by binary search. The interviewer seemed satisfied with this answer and asked me to code the main idea of it.

Interview 3:
- Open Ended Problem and System Design Round.
- This round started with a discussion of my interests and projects.Then the interviewer proposed an extension to one of my projects and asked me to explain how I would approach this fairly open ended problem.
- After 15-20 mins of discussion, he seemed satisfied and we moved onto a system design problem where I was asked to design a Pastebin clone for use in a university.
- Gaurav Sen's videos are brilliant for preparing for System Design.
- As for open-ended problems, having a fair bit of basic knowledge of major technologies is useful. But keep in mind that the interviewer doesn't expect you to have a strong grasp on all of them, they just want to see how you approach the problem.

**Important CDCs and Elective Courses:**
DSA, Software Engineering (I wasn't asked anything theoretical about DBMS and OOPS in Codenation interviews, however practical applications in my project were discussed)

**When did you start seriously preparing? How did you go about it?**
- I've been doing competitive coding since my 1-1, so I only started with Leetcode and Interviewbit questions after PS1, mostly focusing on linked list and binary search tree questions.
- I brushed up on theoretical OOPS and DBMS concepts from the course slides and went through some general questions I could find on GeeksForGeeks.

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- I watched Gaurav Sen's videos on System design and tried some system design exercises from various resources (https://github.com/shashank88/system_design is a great list of resources, though I barely used it)

**What were some critical topics/skills essential for the process?**
- Strong algorithmic thinking.
- Knowledge of my projects and the general domains they were in
- Good knowledge of how to approach system design problems

**What kind of projects did you work on that were helpful to your selection?**
My most important project was my Software Engineering course project, which was a course and assignment management system (think of it like a simpler CMS). This gave me a good grasp over the basics of good practices in designing complex systems.

**Sources to help in preparations:**
- DSA: Leetcode / InterviewBit for basics
- Codeforces Div2 C-D level problems after that if you have time.
- System Design: Gaurav Sen's System Design videos
- Try some of the ideas from https://github.com/shashank88/system_design if you have time.

**Your suggestions to someone preparing to appear in this company?**
- Have at least one strong project you can talk about to the smallest possible details and explain the reasons for your choices (or possibly why you would do it differently now). Have a rough idea of the surrounding fields and possible extensions to your project.
- Have a strong grasp on complexity analysis and algorithmic problem solving, preferably a decent bit of competitive coding experience.
- Have a good grasp on system design fundamentals.

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**Name:** Ridhiman Agrawal

**Recruitment Procedure**
Round 1 - Project Discussion
Round 2 - DSA
Round 3 - Open Ended Problem / System Design + Slight project Discussion + 5 min of HR

**Important CDCs and Elective Courses:**
DSA for DSA Round
OOPs / Comp Graphics for Projects

**When did you start seriously preparing? How did you go about it?**
I started doing DSA since first month of first semester, all other things I did during end of summer before companies came

**What were some critical topics/skills essential for the process?**
DSA is essential

**What kind of projects did you work on that were helpful to your selection?**
Basic projects were done in course, but you need to have a very good understanding of your project. What you find interesting in that project, What major challenge did you face are some of the common questions.

**Your suggestions to someone preparing to appear in this company?**
Prepare DSA really well, have a good understanding of the project, learn basic system design apart from that just remain calm and confident during the interviews

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**Company Name: DBS**

**Eligibility: CS, ECE, EEE,EnI**

**CGPA Cut-off: 0**

**Roles: Software Intern**

**Selects: 7**

**Stipend: 60,000 per month**

**Selection Rounds: 2**

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**Name :** Ritika Reddy

**Recruitment Procedure**

First round was an online test.
- There were three sections - MCQs, 1 coding problem and 1 DBMS SQL question. MCQs were from general CS topics such as OOPS, DBMS, DSA, OS, etc.

Second Round was an interview round:
- First I was asked to write an SQL query while presenting my screen. Then I was asked basic questions on SQL and DBMS. I was asked a lot of OOPS questions mostly consisting of definitions of terms and syntax. Benefits of using object oriented languages. Questions related to DSA concepts like trees were also asked. I was asked a few questions from OS as well like the dining philosophers problem and what a deadlock is.
- I was asked to code a simple palindrome question while sharing my screen in any language I preferred within a few minutes. I was told to do it as fast as I could.
- Then I was asked to explain my PS1 project, my role in the team, difficulties faced during the internship etc.

**Important CDCs and Elective Courses:**
CSf111, DISCO, DSA, OOPS, DBMS, OS,

**When did you start seriously preparing? How did you go about it?**
- I started preparing seriously for internships around April/May of my second year. Before this I would try to code but motivation wouldn't last long, I'm sure most of you can relate to that.
- I started going topic wise and followed the competitive coders Facebook group for resources. GeeksforGeeks helped clear a lot of concepts. My friend and I motivated each other and set goals to finish certain topics. I would highly recommend doing preparation with at least one other person.
- It helps maintain discipline and builds some kind of competitive spirit as well. I tried to do ANYTHING each day be it big or small just to be consistent. Some

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days I would solve 3-4 problems and some days I would just read one article or watch a 10min youtube video. I mainly focused on DSA cause that was my weakness. The important thing is to do a little bit everyday even if it's just for 30mins.
- I also maintained a notebook and wrote down important concepts/algorithms that I learnt that day. This was very helpful when I needed to revise just before the interview.

**What were some critical topics/skills essential for the process?**
- Clarity in DSA, OOPS and DBMS is extremely crucial. With respect to topics you need to learn you will find a lot of resources. I would like to emphasize on the importance of staying confident and humble during the interview itself. It is okay to not know the answer to a question, interviewers are generally very helpful and will respect your honesty as long as you try to reach a solution.
- If you don't know a particular definition by the book, try to give an example to explain the concept. Giving examples is a good habit either way, since it shows that you understand exactly what they're asking. Keep talking to the interviewer to explain your thought process and ask doubts. The end goal is to convince them that you are willing to learn and will be a good fit for their team.
- Even if the interview seems to be going badly, don't lose hope and move on to the next question. They don't expect 100% accuracy. When asked if you have any questions for them, make sure you have a conversation with them, try to make them remember you and make a good impression.

**Sources to help in preparations:**
InterviewBit, Leetcode, Facebook groups, GeeksforGeeks, Codeforces

**Your suggestions to someone preparing to appear in this company?**
Try revising concepts regularly. Just because you're done with a topic doesn't mean you won't forget it later so it's important to revise not just before the interview but on a regular basis. There's a few links like "top 50 OOPS questions asked in interviews" etc. that really helped me quickly recap just before the interview. Confidence is key and just remember that it's not the end of the world if you don't do well in the interview so stay relaxed and your mind will be more open to critical thinking.

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**Name :** Bhavish Pahwa

**Recruitment Procedure**
- The First round was a proctored coding round on HackerRank and had some MCQ questions related to JAVA and some CS basics and some related to High -level - design. There was also one DSA based coding question on binary search and one SQL query problem in this round.
- The Second round was an HR + Technical interview round . There was a conference call with both an HR and a senior software engineer of DBS. In the second round questions were asked on JAVA + some basic DSA + questions on projects I had written in my resume + general HR behavioral questions.

**Important CDCs and Elective Courses:**
- For the test Object Oriented Programming(OOP) course was helpful for MCQs and the Database Systems course was helpful for the SQL query problem also DSA is and will always remain an important component of recruitment tests(in IT).
- For the interview, I was primarily grilled on my elective course Cryptography's course project so I think that also helped me in the interview .

**When did you start seriously preparing? How did you go about it?**
- I started preparing seriously in July after my PS1 because in my PS1 I was more focused towards doing some courses on Deep learning from Coursera . If you ask me I was pretty late as most of the people started preparing from March when the classes got suspended due to Covid 19. Even though I was quite late I was pretty optimistic and made a plan to finish most of the Topics in time.
- I made a timetable dedicating time to both DSA and other CS core topics. For DSA I used to practice mainly from Leetcode topic wise and Interviewbit topic wise questions. Although many people say you should do CC(competitive coding) , I think it depends on the amount of time you have, if you start late you might panic which would lead to further deterioration in both performance and speed.
- Best choice if you have time should be to first practice from say a beginner level problems in the problem set on the CodeForces platform . Also the PU in collaboration with CRUX provides a series of mock Coding tests hosted on

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CodeForces along with a series of practice / learning material. Also CodeForces has an EDU section now and the tutorials are on another level both in code/algorithm design and implementation, one should definitely check this out .
- For Core CS topics I used GeeksForGeeks along with some notes I had made during 2nd year CDCs. Most important topics from the point of view of the SI process from Core CS are OOP(object oriented programming ), Database Systems , OS(asked in some companies like ServiceNow, Salesforce etc.). Also one should also be familiar with OOPs concepts of C++(like friend function) as they are not usually taught in the CDC course .

**What were some critical topics/skills essential for the process?**
- Most important topics from the point of view of the SI process from Core CS are OOP(object oriented programming ), Database Systems , OS(asked in some companies like ServiceNow, Salesforce etc.). Also one should also be familiar with OOPs concepts of C++(like friend function) as they are not usually taught in the CDC course .
- Also DSA topics like Strings , Bit manipulation , Arrays , Linked Lists , Stacks and Queues , Backtracking , hashing , Dynamic Programming , Heaps and maps , Tree , Greedy algorithm , Graphs, two pointer technique etc. are important

**What kind of projects did you work on that were helpful to your selection?**
I had projects related to Core Java like Cab booking application made using JAVA Swing on frontend and MongoDB on backend , Cryptography project based on blockchain , Database Systems project (again JAVA + Swing) which were helpful for my selection.

**Sources to help in preparations:**
- For DSA, Leetcode and Interviewbit are enough along with regular learnings from the EDU section of CodeForces(they have beautiful explanations on problems related to binary search and two pointer methods) .
- For Core CS GeeksForGeeks along with some notes on CDCs is enough.

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**Your suggestions to someone preparing to appear in this company?**

For DBS they also asked questions related to the background of the company, it's current position in India and some future plans which they had written on their website. As it was an HR + tech interview, asking some questions related to the seamless collaboration of different teams and their decisions related to tech stack also helped me during the interview.

**Name:** Smiket Barodia

**Recruitment Procedure**

There were two rounds:
- Round 1: First round was an online test on HackerRank. It had 2 coding questions (DP) and a few medium level MCQs.
- Round 2:It was a face-to-face virtual interview which had both the HR and the Technical Panel. The HR questions were quite generic and the technical questions were based on the DBMS system in the banking sector.

**Important CDCs and Elective Courses:**

DSA, DBMS, OOPS

**When did you start seriously preparing? How did you go about it?**
- I started preparing for the internships roughly after the PS1.
- When I started, I had no proper experience of coding but I used to complete the Disco and DSA assignments on my own and even starred in a few good problems which I resolved. After studying important algorithms and DSA theory, I started solving problems on Codeforces, though I never participated in any contest.
- I also went through all the projects that I had done, which came out to be very effective during the interviews.

**What were some critical topics/skills essential for the process?**
- Problem Solving skills
- Top DSA algorithms
- DBMS concepts

**What kind of projects did you work on that were helpful to your selection?**
- The project done in OOPS course was one of the best
- The PS1 project which was based on MERN stack was very useful
- Apart from this, I did few projects on my own

**Sources to help in preparations:**

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GeeksForGeeks, Codeforces, InterviewBit, DSA and Disco theory and Assignments

**Your suggestions to someone preparing to appear in this company?**
I think someone applying for this company should have a minimal knowledge of "IT in Banking", that will certainly give you an edge. Prepare answers for a few generic HR questions beforehand.

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**Name:** Shivang Shah

## Recruitment Procedure
Online Round:
- Had some conceptual Mcqs which were 1 marker. They covered mostly all the CS cdc's like OS, CN, OOPS , DSA and DBMS.
- One coding question based on dynamic programming which had a high weightage .
- One SQL question which was tough as the majority of people couldn't attend/ answer it.

Technical / HR round :-
- Asked basic questions on OOPS and DBMS.
- Then some Data Structure questions were asked.
- Then the interviewer asked me about my favourite topic to which I said ML. Then a lot of good conceptual questions were asked on ML/ AI which I answered perfectly.
- Then some questions on JavaScript and Software Engineering were also asked. I couldn't answer some questions in this part.
- Then the HR asked about my future plans. ( jobs or higher studies) .Also why should they recruit me and why do I want to join the company .
- At last I was given the opportunity to ask them some questions.

## Important CDCs and Elective Courses:
DSA , OOPS, DBMS ,ML , SE

## When did you start seriously preparing? How did you go about it?
I started preparing for the coding and interview rounds in the month of August after my PS1. It was a bit late but you can start during the PS1 as well. I mostly solved questions from InterviewBit and Leetcode as they had a good pool of previous year Internship/ Placement questions. I also revised OOPs / DBMS concepts by referring to the lecture notes and course slides.

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**What were some critical topics/skills essential for the process?**
- Basic OOPs concepts
- SQL question in an online coding round which many of the students couldn't solve. So if your SQL is better your chances of getting selected in the 1st round is more.
- Basic Dsa questions. ( We got a DP question)
- Conceptual AI / ML questions were also asked

**Sources to help in preparations:**
- Geeks for Geeks
- Interview Bit
- Leetcode -> solve monthly challenges
- Prepare DSA and OOPS properly using course materials (slides and lectures )

**Your suggestions to someone preparing to appear in this company?**
Try to score most of the points in the online coding round. In case of tiebreakers in the interview round, I think the company prefers to select on the basis of online test scores . So score more in the coding round.

**Name:** Harshit Gakhar

**Recruitment Procedure:**
- Online Test :One coding Question and one Complex SQL query along with some MCQs based on CS basics and some based on general problem solving skills.
- Online Interview had general HR questions, and questions based on technology stacks one had worked on.

**Important CDCs and Elective Courses:**
DSA, OOP, Software Engineering (not directly), Database Systems

**What were some critical topics/skills essential for the process?**
- For the online tests, most weightage was for coding questions and SQL query, with some MCQs.
- HR interviews had significant weightage in selection criteria, I'd recommend being properly prepared for HR.
- For the tech part of the interview the interviewer asked about what languages and technologies I have worked with and asked questions based on that, in my case the questions were on basics of MERN stack, REST API, JavaScript and Python.

**What kind of projects did you work on that were helpful to your selection?**
Web Development based projects ( Software Engineering course + PS1) and OOP course projects were helpful.

**Sources to help in preparations:**
leetcode, interviewbit, hackerearth, hackerank

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**Name:** Saksham Gupta

**Recruitment Procedure**
- Online test had 15mcq ,1 Coding question and 1 SQL query.
- Online Interview was briefly asked about my projects,I had to show a demo of my projects and typical HR Questions.

**Important CDCs and Elective Courses:**
DSA,OOPs,DBMS

**When did you start seriously preparing? How did you go about it?**
I was average at coding based on my 1st and 2nd year. I started specifically for SI in the middle of my PS1.

**What were some critical topics/skills essential for the process?**
Confidence and attitude is a must for interviews, be thorough with the projects apart from that DSA and algorithms are the key along with OOPs and basics of DBMS, OS

**What kind of projects did you work on that were helpful to your selection?**
A Web Dev project is a must on your resume. Apart from that I had ML, OOP, and Data Mining projects.

**Sources to help in preparations:**
Interviewbit, Leetcode and hackerrank and your class notes(I didn't have those...so had to struggle online for that)

**Your suggestions to someone preparing to appear in this company?**
Before interviewing for any company research about it, companies value what they look for in you.

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**Name:** Annam Sai Vishwanath

**Recruitment Procedure**
- Round1: It's an online test consisting of 15-30 mcq mostly related to DSA and one coding question and at last one question related to DBMS.
- Round 2: It was the technical interview round. which had fundamental questions on OOPS,DSA, DBMS.
- Round 3: It consisted of basic HR questions.

**Important CDCs and Elective Courses:**
DSA,OOPS,DBMS

**When did you start seriously preparing? How did you go about it?**
I started preparing in 3-1 but I would suggest you start preparing at least a month before 3-1.

**What were some critical topics/skills essential for the process?**
DSA ,OOPS and DBMS

**Sources to help in preparations:**
Geeks for Geeks

**Your suggestions to someone preparing to appear in this company?**
Be thorough with DSA (standard algorithms) and the STL library if you are using C++ for coding.

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**Company Name: DE Shaw**

**Eligibility: CS, ECE, EEE, EnI, Msc Math**

**CGPA Cut-off: 7**

**Selects: 2**

**Role:  Software Developer Intern**

**Stipend: 1,50,000 per month**

**Selection Rounds: 3**

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**Name:** Raj Agarwal

**Recruitment Procedure**
- online test - competitive coding questions were asked
- interview 1 -
  Data structures - easy dsa questions were asked
  OOP and DBMS - conceptual questions were asked
- interview 2
  one dsa question was asked (leetcode type)
  OOP concepts were asked. I was grilled on the implementation of each concept
  and even questions on 'static' variable , mapping in general, implementation of
  data structure - map in c++, etc were asked

**Important CDCs and Elective Courses:**
- for online test - practicing competitive coding type questions is definitely required
- for interview - DSA, OOP, DBMS and interviewBit

**When did you start seriously preparing? How did you go about it?**
I have been doing competitive coding since my first year and studied the CDCs
seriously knowing that these would be helpful in interviews. I had to practice InterviewBit
questions which I did during my vacations before the internship season(June).

**What were some critical topics/skills essential for the process?**
DSA, OOP, DBMS.

A very good understanding of the concepts and good hand on code implementation
would be helpful

**What kind of projects did you work on that were helpful to your selection?**
I had no project with a professor. Just had a PS 1 project and one that I did in
cryptography

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**Sources to help in preparations:**
- Definitively have a good hand on competitive coding (good enough to solve 1600 level codeforces problem at the very least)
- Practice questions on interviewBit or leetcode
- geeksforgeeks archives - before appearing for an interview, check out the previously asked questions once. really helps a lot.

**Your suggestions to someone preparing to appear in this company?**
The company not only focuses on DSA questions but also gives equal importance to OOP and DBMS ones. So, be thorough with the concepts with their implementations. One more thing, I had no discussion on projects.

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**Name:** Abhinand V Chari

**Recruitment Procedure**
The online test consisted of a few DSA questions.
Both the interviews were virtual interviews conducted on codepair.
- The first interview took around 30-40 minutes. Firstly, they took a look at my resume and asked a couple of questions on my project. Then, I was asked to implement a slightly modified version of hashmap using classes in C++. After this, I was asked a DSA question (greedy).
- In the 2nd interview, I was given a question on Binary trees. This question took around 30 minutes to solve. I was asked to explain my entire thought process while solving this question and also to implement the solution in the editor. Next, I was asked a few basic OOP questions (inheritance, polymorphism). Finally I was asked a couple of questions on virtual functions and copy constructors (in C++).

**Important CDCs and Elective Courses:**
DSA, DBMS and OOP

**When did you start seriously preparing? How did you go about it?**
I started seriously preparing in August just before the semester started. I solved questions daily on Leetcode on topics I felt I was weak in. I also started revising OOP and DBMS using the slides and textbook.

**What were some critical topics/skills essential for the process?**
- OOP - You need to have a good understanding of basic concepts.
- DSA - You need to have a good grasp on Algorithms and time complexity. Also, you need to be able to correctly explain your thought process to the interviewer. In DSA, some of the important topics are DP, Graphs, Searching & Sorting and Trees.

**What kind of projects did you work on that were helpful to your selection?**
The only project in my resume at the time was the OOP course project. The interviewers did not really focus on my project. They just took a look at it and asked me to very briefly explain what I did. I was not asked any other questions based on my project.

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**Sources to help in preparations:**
- For OOP and DBMS - Slides and textbook. Also, past year lecture videos (if you have the time)
- For DSA - Leetcode/Interviewbit, Slides, geeksforgeeks.

**Your suggestions to someone preparing to appear in this company?**
- Make sure that you are confident with the basics (in DSA, DBMS, OOP).
- Practice a lot of questions in DSA, especially in topics you are not 100% comfortable with.
- Check out previous year interview questions asked by the company. Some companies might repeat their questions (or ask very similar questions)
- Most importantly, stay calm and confident during the interview. If you don't know the answer to a question, don't panic. Make sure you explain your approach/thought process clearly to the interviewers. Interviewers usually provide hints if you're not able to completely answer something.

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**Company Name: Doubtnut**

**Eligibility: B.E All**

**CGPA Cut-off: 0**

**Selects: 7**

**Stipend: 20,000  per month**

**Selection Rounds: 2**

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**Name:** Satyam Mishra

**Recruitment Procedure**
General Questions from Mechanics, Electrostatics and Optics. JEE level questions are asked.

**Important CDCs and Elective Courses:**
MEOW

**What were some critical topics/skills essential for the process?**
Good Communication Skills along with good knowledge in Physics of JEE level will suffice.

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**Company Name: Dremio**

**Eligibility: B.E All**

**CGPA Cut-off: 0**

**Selects: 1**

**Stipend: 1,00,000  per month**

**Selection Rounds: 2**

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**Name:** Hasnain Zeenwala

**Recruitment Procedure**
- First round was a bit open ended, including discussions on various data structures. I was asked to implement an ADT (Abstract Data Type) and we discussed its use cases. I was asked to make it efficient in various aspects depending on the use case.
- Second round was a conventional algorithms round. I was asked an algorithms question and had to code it in google docs

**Important CDCs and Elective Courses:**
DSA, OS, OOP, DBMS

**When did you start seriously preparing? How did you go about it?**
I began preparing during my PS - 1

**What were some critical topics/skills essential for the process?**
- Apart from the conventional interview prep which involves solving lots of questions related to algorithms, it is useful to have a strong theoretical understanding of CS fundamentals (OS, DBMS, OOP) This helps in driving the discussion during interviews and may set you apart.
- Understanding a language of your choice deeply might also set you apart. For example, if you use C++ STL, you should know how vectors are implemented, how does it manage dynamic addition of new objects, whether the memory allocated is contiguous or not, etc.

**Your suggestions to someone preparing to appear in this company?**
You should have a solid understanding of fundamentals. It isn't really necessary to grind a lot of leetcode/interview bit questions for this company, in my opinion.

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**Company Name: Electronic Arts**

**Eligibility: B.E. CS, ECE, EEE, ENI**

**CGPA cut off: 0**

**Roles: Software engineering intern**

**Selects: 1**

**Stipend: 40,000 per month**

**Selection Rounds: 5**

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**Name:** Ashwin Kumar Raja

**Recruitment Procedure**
There were 3 Technical, 1 HR and 1 Hiring Manager round.

- Shortlist Round - Basic ML and AI Quiz, one DSA question each in Java, Python and JS.

- Technical Rounds - Knowledge of Python and JavaScript. Many important concepts related to them like Event Queue, Async, Closures and other jargon in JavaScript and lambda function, classes and stuff in Python.

- In one Technical round, I was asked about the technologies I have used and come across and different projects I have worked on in Machine Learning and AI. It was more of a conversation than an interview. So was the HR round, more about my likes, interests, what games I play and why I wanted to join the company and stuff.

- The final Hiring Manager round was more related to my problem-solving ability. It was inclined to solving real-life problems using AI and ML. How would I go about doing it, And it was about understanding my way of thinking and attacking a problem. I had to ask a lot of clarifying questions and come up with a plausible solution.

**Important CDCs and Elective Courses:**
AI, Machine Learning, Information Retrieval and Software Engineering.

**When did you start seriously preparing? How did you go about it?**
Around November 2020. I started with Leetcode and Hackerrank. I used to do a few problems every day and tried identifying where I was lacking, but the role was related to Machine Learning and full-stack development. Hence I had to brush up with Python and ML concepts and also a bit of JavaScript. Notes and slides of topics related to the job role was sufficient.

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**What were some critical topics/skills essential for the process?**
Machine Learning, Python, JavaScript.

**What kind of projects did you work on that were helpful to your selection?**
Primary assignments that are part of courses like Information Retrieval and Artificial Intelligence. Wherever possible, I plugged in my learning and outcomes of these projects during the interviews.

**Sources to help in preparations:**
Leetcode, Hackerrank and notes or slides of important subjects like OS, OOP, Machine Learning and AI.

**Your suggestions to someone preparing to appear in this company?**
I was not asked a single DSA question during interviews. Clearly read the job description and prepare for those specific topics.

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**Company Name : Epsilon**
**Eligibility : B.E. All, B Pharm**
**CGPA cutoff:0**
**Roles:Data Analyst Intern**
**Selects:6**
**Stipend: 30,000**
**Selection Rounds:3**

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**Name :** Danish Shakeel Mohammad

**Recruitment Procedure :**
Round 1(Test round), this was divided as following:
- Coding test - 30 mins to solve 1 python question
- 15 MCQ questions about Python and SQL
- 7 Mental ability and logical questions
- 7 Math/data interpretation questions, similar to DI questions in CAT(in fact, a little easier)

Rounds 2 and 3(Interview Rounds):
- I was asked mostly about projects, so make sure that your projects align with the role (Data Analyst, in my case)  you're applying for.

**Important CDCs and electives:**
- CDCs - DSA, DBMS
- Electives - Selected topics( They covered RL that sem, the actual topics covered may vary)

**When did you start preparing seriously?How did you go about it?**
I practiced coding from InterviewBit and SQL from  Sanfoundry. Initially, at least for InterviewBit,  go through one question from each topic so that you've an idea of how to solve all types of questions.Look at itertools in python, they should help speed up  a lot of stuff. To learn SQL, I used Tutorialspoint and some youtube tutorials, apart from the DBMS course that I took.Leetcode also covers a lot of similar questions as InterviewBit, but I personally found InterviewBit more structured.

**What are some critical topics/skills essential for the process?**
SQL, mostly queries. Look at how to use group by, having and all the different joins.
For Python, learn about classes, inheritance, and dunder variables.

**Sources to help in preparation :**
- InterviewBit
- Sanfoundry
- Tutorialspoint

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**Suggestions for someone appearing for this company?**

Be calm and prepare a few questions to ask the interviewers during the interview, which might leave a positive impression.

**Name :** Hridik Punukollu

**Recruitment procedure:**
Online Test(divided into 5 sections):
- Abstract Reasoning-  Predict the pattern, Mirror/water image, Word encoding, Blood relations, etc.
- Analytical Ability - similar to the previous section.
- Data Analysis - Charts of different types were given, and questions asked were on the data described by the charts.
- Programming - A LeetCode easy-medium question was  asked,which was to be coded by using Python 2 / 3 (so make sure to be comfortable with it)
- Technical Skills - A small problem/snippet of code was given and  you had to either predict the output, or select the code that would satisfy the problem(MCQ type). Python(which included few OOPS and one OS) and SQL questions were asked.

Round 1(Tech):
- Started off with discussing some projects on my Resume, all of which were software development projects apart from two formal projects.Most of the discussion revolved around the two formal ones.I was asked some in depth technical questions about them, more specifically the project which had more to do with data.
- Knowing your projects really well and being able to justify each decision you have made as a part of them, is going to give you an upper edge.
- Was also asked about my hobbies, and a brief discussion about my cryptocurrency trading, and the indicators I use for it,etc.

Round 2(Tech + HR):
- I was asked about my interests in Tech, and what my thought process would be when I'm given a problem, and what my go-to language would be. My answer was Python, and then I was asked to rate myself from 1-10.
- I was then asked to describe a big problem that I solved using python. I described my first formal project and my implementation of Differential Evolution.

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- I was then given an optimisation puzzle, since I said I was interested in optimisation.Then he went on to ask me if I knew what SQL was.I said no,but also mentioned that it wouldn't be a great task to learn it.

Round 3:
Some people had a round 3 as well, but I wasn't one of them.From what I am told, it was similar to round 2.

**Important CDCs and electives:**
CE F411- Operations Research and BITS F313(Civil DELs). CS F372- Operating Systems(OPEL)

**When did you start preparing seriously and how did you go about it?**
I prepared only for SDE roles until SI season began in 3-1.I prepared from sites like LeetCode, InterviewBit, cses.fi. However, this being an Analyst role, didn't particularly benefit directly.Nevertheless, it helped keep my Python skills strong which was beneficial for the coding question and some of the technical skills questions in the online test. My NTSE prep in school helped me with the logical reasoning and analytical part of the questions in the test.

**What are some critical topics/skills essential for the process?**
Python was a prerequisite, SQL would be an added benefit(though not a deal breaker,I didn't know SQL). Basic OOPS, Processes and Threading(OS) would be essential, so would be logical reasoning.

**Sources to help in preparation :**
- LeetCode(easy/medium questions) - coding question
- RealPython - OOPS in python
- CS F372 slides- for concepts in OS
- GeeksforGeeks - puzzles and reasoning
- Javatpoint - puzzles and reasoning

**Suggestions for someone appearing for this company?**
Know your projects inside out. Manage time well in the online test, the chart/graph questions can take time and will require you to be quick at math. Be good at

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Python.Also benign truthful and clear about what you say, will keep the panel interested in you. Keep calm, the panel is there to help, you just have to ask. Good Luck!

**Suggestions for someone appearing for this company?**

Test would be quite easy. Interviewers were quite generous and helping so just be interactive with them, and if you don't know something don't take much of time for instance they asked me how you create histogram using matplotlib and I wasn't sure of syntax so I said I don't remember the exact syntax as most of the time you copy and paste making necessary changes to which her reply was she too does that and was just pulling my leg.

Also, just be prepared on whatever you write in your resume questions could be based on that.

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**Name:** Akshat Bajpai

**Recruitment procedure :**
Test : Platform was mettl.
It was divided into 4 parts:
- Visual Reasoning: Simply identifying the next pattern
- Aptitude
- Hands on Coding: Program to join the sets given if the two sets had a common element. Only Python Language could be used(1 Question 30 mins)
- Technical: Output finding question based on SQL, Python Classes and Inheritance
- Each part had a specific time defined and must be completed in that time frame only.

Interviews: 3 Rounds (Zoom call)
Round 1(30-40 mins):
- Tech based questions, detailed explanation of any one project from your resume, questions based on mean, median and mode, and on data cleaning

Round 2(30 mins):
- Mix of HR and Tech, HR questions were normal like where do you see yourself in 5 years, why should we hire you and all.
- Moreover, you must have at least a mini project done in Python, few questions on basic use of numpy and pandas, and a scenario based question that might require a bit of analysis at that moment

Round 3:
- Mix of HR and Tech, HR questions was like why this internship?( Since its a data analyst job and mostly my resume was based on software development), Another question was tell me about yourself that's not in this resume (Some co-curricular activity)
- Tech questions were again based on the project you did in Python, difference between list and tuple data structures, confusion matrix, DFS, BFS and another scenario based question

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**Important CDCs and electives:**
DSA, DBMS, Machine Learning, Data Mining, Information Retrieval

**When did you start preparing seriously and how did you go about it?**

- I started after the PS1 ended.I had to do some electives based on Data Science hence did Specialization in Python from Coursera (which helped a lot during the interview process).
- My DSA was weak so I did a course on that as well. For Practicing I used Hackerrank (30 days of code, problem solving, Language Proficiency in C++ and Python), for Puzzles and getting used to types of questions that come in the tech round of the company using Interviewbit.

**What are some critical topics/skills essential for the process?**

- The main skill they are looking for you is how confidently you answer the questions, how much attention you give to the details, do read the job description provided before the interview would help in answering the HR questions
- What technical skills they are looking for is proficiency in Python and SQL, must know what is data cleaning and when to use mean and when to use median to fill the missing data.
- For scenario based questions they are not looking for the exact answer but checks your ability to analyze the problem statement and come up with something that makes sense. Even though you might give bits and pieces of an answer they'll help and clear on what you meant by rephrasing what you said, just be confident on whatever you say.

**Sources to help in preparation :**
- Hackerrank
- Interviewbit
- Geeks for Geeks
- College material for the electives like ML, IR and DM

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**Suggestions for someone appearing for this company?**
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- Also, just be prepared on whatever you write in your resume questions could be based on that

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**Company Name: Flipkart**

**Eligibility: BE CS, ECE, EEE, ENI**

**CGPA Cut-off: 0 for CS and 7 for ECE, EEE, ENI**

**Selects: 5**

**Role: Software Development Engineer Intern**

**Stipend: 50,000 per month**

**Selection Rounds: 4**

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**Name:** Dhruv Adlakha

**Recruitment Procedure**
- Coding round : Three questions related to Data structures and algorithms. First question was related to Minimum spanning trees (MST), second was some kind of BFS and third one was related to stack. The first question was the most difficult one. The questions were not direct, there was some kind of case study in which you had to infer what to do. Candidates who did 2 complete questions and a threshold of test cases passed of the third one were selected. Around 20 candidates were shortlisted for the first round.
- Round 1 (Coding Interview) : I felt this round easier compared to the coding round, the questions were related to hashing and tree traversal. 3 questions were asked in total and later the interviewers asked if I had any questions for them.
- Round 2 (Coding Interview) : This was a difficult one. The first question was based on Trie data structure (don't confuse it with Tree) and the second one was a general question but it required Breadth first search for solving it. The questions unlike the round 1 didn't directly hint what approach to take. Similar to round-1 the interviewers asked if I had any questions for them. I was asked to write basic code for 1 problem in both round 1 and round 2.
- Round 3 (Resume/Projects discussion) : This round had no DSA problems, first the interviewers told about themselves. Then I was asked to introduce myself. In my introduction I had mentioned the projects I did so they picked two of them and started asking the main functionality, motivation etc of the project. For instance, for the Software engineering project they asked me the component view of my project, my contribution in the project etc and for the database systems project questions related to Hashing, Normalization etc were asked. You need to communicate well and be thorough with your work. This was easier compared to previous rounds as no difficult coding problems were asked.

**Important CDCs and Elective Courses:**
Data structures and Algorithms, Software Engineering, Database systems and Object Oriented Programming

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**When did you start seriously preparing? How did you go about it?**
I was doing competitive coding before which helped me in the DSA rounds. I practiced from Interviewbit after the practice school finished (we got some time as internship drive started some later than usual due to COVID). For the theoretical courses I referred to the lecture slides.

**What were some critical topics/skills essential for the process?**
Data structures and Algorithms/Problem solving skills (This is the main focus), Projects are not as important as DSA but you need to have things to talk about if there is a project or resume discussion round.

**What kind of projects did you work on that were helpful to your selection?**
Software Engineering course project - Social networking application using MERN stack
Database systems - Normalization of functional dependencies and Extendible hashing scheme implementation coded in Java.

**Sources to help in preparations:**
Interviewbit, Codeforces, GeeksForGeeks

**Your suggestions to someone preparing to appear in this company?**
You need to be good at Data structures and Algorithms and implementation skills. If you are having projects take a look at the concepts used for instance you can be asked different ways of hashing etc. Communicate well, listen to the interviewer and tell your approach to the interviewer clearly.

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**Name :** Geeth Charan Reddy Kona

**Recruitment Procedure**
- Online round: We were asked 3 DSA questions. one MST(Graphs) question, one BFS(Graphs) question, one stack question
- Interview round 1: A two pointers question on strings, a simple BFS question
- Interview round 2: A greedy question, an implementation/ad-hoc question
- HR round: This round is pretty chill, if you make it to this round then that means you are 95% selected. The interviewer asked me to talk about myself and asked me a few simple OOP questions and asked me to explain any one of the projects I did.

**Important CDCs and Elective Courses:**
DSA, OOP, DBMS

**When did you start seriously preparing? How did you go about it?**
I started late march/early may. I did problems solely on LeetCode. No Competitive programming at all. I did a few problems every day aimlessly which proved to be very inefficient. I would suggest you all solve problems by topic/concept. Don't just go about solving problems left and right. Take a structured approach.

**What were some critical topics/skills essential for the process?**
Your DSA problem solving skills are paramount, followed by your OOP+DBMS knowledge.

**What kind of projects did you work on that were helpful to your selection?**
I only put my PS-1, OOP and DBMS projects. My resume or projects were never a point of discussion in the entire process. Only in the HR round was I asked to briefly talk about any one of my projects. So do not worry too much if you don't have projects.

**Sources to help in preparations:**

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- DSA > OOP > DBMS > Projects/Resume. This is the order in which you have to prioritize things when preparing for SI's or your placements in the future. Your DSA skills are paramount at this stage. Read interview experiences on sites like GfG or SI chronicles to understand the kind of questions+concepts companies are asking.
- Sites like interviewbit and leetcode are very helpful for DSA prep. Solve problems by concept/topic. Be good at topics like Graphs, DP, Greedy, Math(Number Theory, Combinatorics etc...) to crack interviews at harder companies since they only test students on these concepts majority of the time.

**Your suggestions to someone preparing to appear in this company?**
Nothing in particular. Be good at DSA. Have basic knowledge of OOP+DBMS concepts. All the best!

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**Name:** Aryesh Koya

**Recruitment Procedure**
- Round 1 : Online coding test
  There were a total of 3 coding questions
  Questions were mostly implementation based, and didn't require knowledge of any specific topics. They were easy-medium level.
- Round 2 : Tech interviews
  The first interview involved 3 questions. These were based on implementation, and general topics such as sliding window, 2 pointers. These were easy-medium levels. The interviewer expected pseudocode for all questions.
  The second interview involved 2 questions, the first question was based on LCA of a binary tree. The second was based on DP. The interviewer only expected the approach, and expected clarity of one's solution.
- Round 3 : Hiring manager interview
  This interview was conducted by a senior manager at the company. The interview was more like an HR round, but the interviewer was also interested in the projects I had done. Questions were less based on the technical aspects, and more on the approach taken, conflict resolution etc.

**Important CDCs and Elective Courses:**
Questions were based on DSA, concepts based on OOPS/DBMS were not asked.

**When did you start seriously preparing? How did you go about it?**
I started preparing at the beginning of my 3-1. I went over different topics generally asked in interviews, and tried solving a few questions from each.

**What were some critical topics/skills essential for the process?**

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A fair knowledge of DSA, and problem solving were required for the coding rounds and tech. Interviews.

**What kind of projects did you work on that were helpful to your selection?**
Questions on the project didn't involve much of the technical aspects, but I mentioned the projects I had done as coursework, PS1, hackathons, and personal projects.

**Sources to help in preparations:**
I mainly used GFG to learn DSA concepts, and codeforces for problem solving. I also used cp-algorithms to learn new topics.

**Your suggestions to someone preparing to appear in this company?**
Questions were asked on problem solving, so one should practice as much as possible. Interviewers will also expect you to explain your process, and have clarity of your solution. Try to communicate your ideas to them, and arrive at an efficient solution. In case you are stuck, they will provide hints to nudge you towards the right direction.

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**Name:** Rutwij Nerkar

**Recruitment Procedure**
- Online round had 3 competitive coding questions.
- In two technical interviews, the interviewer asked me to write pseudo code on a shared editor for 2 questions each. In the last round, the hiring manager just had general talk about courses and projects, etc.

**Important CDCs and Elective Courses:**
I didn't have any CS elective course. I did a DSA course from Coursera.

**When did you start seriously preparing? How did you go about it?**
Basically got serious when lockdown started and the college offered a Coursera subscription. I completed the DSA course on it and started giving contests on codeforces with my friends. During the last month or so, I started preparing with interviews in mind and so most of my preparation was on leetcode and interviewbit.

**What were some critical topics/skills essential for the process?**
First and foremost is DSA. Also go through OOPS and DBMS if you can.

**What kind of projects did you work on that were helpful to your selection?**
I had no CS coursework projects like OOP or DBMS. My PS project was on embedded systems. In the last round, when the HM asked me about my projects, I told him I was an electronics student and he was understanding. He asked me about my PS project instead.

**Sources to help in preparations:**
Geekforgeeks and Leetcode

**Your suggestions to someone preparing to appear in this company?**
Make sure to go through previous year questions by the company on geeks for geeks. I was lucky that one of the questions they asked me was one I had prepared the night before.

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**Company Name:Gojek**

**Eligibility: B.E. All**

**CGPA Cut-off: 0**

**Roles: Full stack developer intern**

**Selects: 3**

**Stipend: 1,00,000 per month**

**Selection Rounds: 2**

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**Name :** Akash Srivastava

**Recruitment procedure :**
Online Test :
- The online test was pretty basic. Apart from logical reasoning and aptitude/behavioural questions, there were a few questions in which the code was given and the bug had to be corrected by changing one line.
- Four complete coding questions were also present.

Technical Interview:
- The technical interview was really tough.
- Apart from one question from DSA, they kept digging into projects and the fundamentals of computer science, and they kept asking questions till you get stuck.
- The questions were focused on finding if the person understands the system or just applies it for the sake of it.

**Important CDCs and electives:**
DSA, Operating Systems, DBMS, OOPs

**What are some critical topics/skills essential for the process?**
DSA, Operating Systems, DBMS, OOPs

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**Name:** Sayantan Biswas

**Recruitment Procedure:**

Criteria:
- The Online Assessment Round. My personal score was 100%. Not sure of the cutoffs.

Round 1,
- The online assessment round had questions on Logical Reasoning, Aptitude, English comprehensions, as well as questions based on coding, including Code Debugging, DSA problems and finding output.

Round 2: (the online technical interview)
- Started out with an introduction, then moved on to a discussion based on previous projects and experience. During this section, I was asked about my technical skills and knowledge,about technologies I had worked with and projects I was currently or had previously worked on.
- I was told to choose any project out of the ones on my CV and thereafter followed an extensive discussion on what the project was about, what problem it solved, the challenges faced during building the project and how they were overcome, the tech stack used in the project, improvements that could be made, etc.
- Finally, we moved on to a DSA question based on Trees.

**Important CDCs and Electives:**
Being an EEE Student, naturally none of the CDCs had been of any help. Among the Elective Courses, Object Oriented Programming was really helpful, especially because it included developing a full-fledged application as part of the course that we could add to our CV(s).

**What are some critical topics/skills essential for the process?**
DSA, Web-Development, Logical Reasoning, Projects (mentioned in CV)

**What kind of projects did you work on that were helpful to your selection?**
- I majorly worked on Web-Development Projects, although I had worked on Mobile/AR Applications as well. Since the role required a Full-Stack Intern, it was helpful to have hands-on experience with Full-Stack Projects, which further strengthened my CV.
- I personally had around 2 Full-Stack Projects, and 1 Front-End Project, along

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with some work-experience at a small start-up, which were immensely useful in the process.

**Sources to help in preparation:**
CodeForces, cp-algorithms, Interviewbit, Udemy (for Web-Dev)

**Your suggestions to someone appearing for this company?**
The online assessment test, although being lengthy, was solvable. Having prior experience as a Full-Stack Intern was a bonus, although not substantial. It really boils down to being adept in DSA, and having some well-made projects in your bag.

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**Name:** Jonathan Samuel

**Recruitment Procedure:**

The Selection Criteria was completely based on problem-solving skills, coding, projects and how well you communicate what you think. The procedure was further divided into 2 rounds i.e, 1)Online Test and 2) Interview

Online Test:

- The test was conducted on Kalibrr platform.
- There were 2 sections in this test. One section was Logical Reasoning and the Other section was Programming.
- In Logical Reasoning basic common questions only were asked. Some were maybe tricky but it was manageable. There were a total of 15 to 20 questions in this section. I scored 70% in this section.
- In the Programming section there were a total of 9 questions. Among these, there were some "print the output", "debug the code" and "writing full program" type questions. Print the output and Debug types were relatively easy. For writing the full program I got some easy questions and the relatively tough ones were 1 DP and 1 Graph question which can be solved with BFS. In this section, I solved all the questions and test cases and scored 100%.(Results come immediately after you finish the test)

Interview:

- The interview was 1.5 hours long.
- So for the first 30 mins we talked about my previous projects and my experience during all of them. More particularly on the experience of how I was from the ECE branch but still managed to learn some Web Dev frameworks and coding. The interviewer then asked what new things I learned, what problems did I face, and how I overcame them in some of my projects. Then one of the projects involved sockets. So he asked a bit about sockets, API, and some other stuff to test my understanding.
- After this we went into DSA for the next 45 mins. So the interviewer told me to talk out loud everything I am thinking just like how we would do if he and I were at work and we're solving the problem together. So it started with a basic question: to interchange 2 numbers without a 3rd variable just to get warmed up. Then he asked questions on Stacks, Linked List, and 2 Pointers. In all these questions first I was asked to tell my idea of the solution with time complexity,

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then write a pseudo code for it, and then a dry run with some examples and edge cases.

- In the last 15 mins I was just asked about tech stacks I'm familiar with and also about some AWS applications which I have mentioned in the projects in my resume.

- This interview was one of the easiest I felt among all the other interviews I faced before. The interviewer was very chill and gave some hints if I was stuck anywhere. The first 30 mins gave me a good chance to express myself well cause I had some decent projects and also used the notepad to explain the logic and for dry runs which the interviewer can also access with Zoom's remote access feature.

## Important CDCs and Electives:
OOPS, DSA(Did not get a chance to take it but would highly recommend to take)

## When did you seriously start preparing? How did you go about it?
I started to seriously prepare after my 2nd year. I first started working on Web Development to get some projects on my resume because I had none before that. Then as the companies started coming in I realized the importance of DSA to clear the initial rounds so I started preparing DSA from then.

## What are some critical topics/skills essential for the process?
- Good knowledge of basic DSA and ability to communicate your thinking process as you code along.
- Decent projects and the ability to explain them in detail along with the problems you faced and the solutions you came up with.
- OOPS concepts.

## What kind of projects did you work on that were helpful to your selection?
- I majorly had 3 Web development projects in MERN, Flask, and React Native. I discussed 2 of these projects with the interviewer.
- These projects I guess surely helped me because I was able to talk about the solutions I came up with for the problems which the interviewer was looking for. Also, it gave a chance for the interviewer to ask questions about Sockets and AWS applications which I have used in my projects.
- Since I had a good understanding of all that, I was able to answer them well and start off DSA with a good first impression.

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**Sources to help in preparation:**
- DSA - Leetcode(for practice)
- Codeforces Contests(to improve your speed and thinking process)
- Projects - Youtube and Udemy courses (would highly recommend "The Complete 2021 Web Development Bootcamp by Angela" if you new to web dev and have no projects)

**Your suggestions to someone appearing for this company?**
- Be thorough with all your projects and be ready to answer about challenges you faced or any technical questions from that too.
- For DSA prepare till Leetcode medium level questions which will be more than enough for the online test and the interview.
- Always think out loud and ask for help if you get stuck. The interviewers are very chill and expect you to communicate everything.
- For the online test try and score as high as possible and try to pass all test cases.

For the interview, take it with a very chill mind. Be confident and express yourself. Think out loud and do a dry run for all DSA questions especially with edge cases. Try to use the right Data Structure for the given question and explain why you think that would be the best.

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**Company Name: Google**

**Eligibility: B.E ALL**

**CGPA Cut-off:0**

**Selects: 2**

**Role: Software Development Engineer Intern**

**Stipend: 98,000 per month**

**Selection Rounds: 3**

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**Name:** Akul Singhal

**Recruitment Procedure**
Online coding round had simple DSA questions. One was about
1st DSA Round had a simple Linked List question and a BFS question
2nd DSA Round was a Tree problem which needed memoization.

**Important CDCs and Elective Courses:**
DSA is the most useful CDC for interviews. SE is a good course to make you work on a decent project

**When did you start seriously preparing? How did you go about it?**
I used to take part in competitive programming competitions from quite a while back. I did some Leetcode and InterviewBit problems for the interviews for around 2 weeks.

**What were some critical topics/skills essential for the process?**
Data Structures and algorithms, specially Linked Lists, Binary Trees and Graphs were very useful in my interviews.

**What kind of projects did you work on that were helpful to your selection?**
I had a project done for Software Engineering course which was a web app like google classroom
The projects weren't asked in the interview but should be helpful for your resume

**Sources to help in preparations:**
Codeforces
InterviewBit
Cp-algorithms

**Your suggestions to someone preparing to appear in this company?**
Google mainly focuses on DSA in their interviews.
Also have a strong resume as it helps in getting an interview.

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**Name:** Vaishnavee Nautiyal

**Recruitment Procedure**
Coding round was purely CC, Interview rounds were similar to DSA( questions based on data structures, recursion, KMP algorithm, merging intervals etc were asked)

**Important CDCs and Elective Courses:**
DSA, Disco

**When did you start seriously preparing? How did you go about it?**
I had been doing CC for one year before my internship, but I started working purely for interviews during summer vacation (around May). I started solving questions on interviewbit, initially topicwise, later company wise (like put google in the search criteria). I still used to give coding contests on codeforces and also gave around a week before the interview to OOPS and DBMS. I also asked my seniors to take my mock interviews 2-3 days before any important interview.

**What were some critical topics/skills essential for the process?**
Confidence, the way you can explain your thought process, your logical as well as coding skills, your friendliness with interviewer, clarity on time complexity analysis for your algo etc.

**What kind of projects did you work on that were helpful to your selection?**
I only had my course projects on my resume back then and they are enough. I had oops, dbms, and computer graphics projects on my resume.

**Sources to help in preparations:**
Interviewbit, leetcode, seniors for mocks, codeforces

**Your suggestions to someone preparing to appear in this company?**
Not to get nervous, the name of the company might be big, but take it as just another company and don't think it'll be the end of the world. /be friendly to interviewers, Ofc performance is important, but even if you're very good but not someone they'd like to work with themselves, you'll get rejected.

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**CompanyName:HDFC Life**

**Eligibility: Front End Developer, Back End Developer**

**CGPA Cut-off:0**

**Roles: B.E. All**

**Selects: 4**

**Stipend: 30,000**

**Selection Rounds: 2**

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**Name:** Param Bhatt

**Recruitment Procedure:**
Interview:
The round included technical questions on my internships and projects, and the field I was interviewing for. There were also some HR based questions, as to how I manage my studies in electronics and apply for CS role, how I know I have a passion for the role, etc

**Important CDCs and Electives:**
None

**When did you seriously start preparing? How did you go about it?**
I seriously didn't prepare very specifically for this role itself. Since this is the main field I have always been working in, I knew most of the theory and small ins and outs of backend work. Before the interview I revised basics from gfg, got examples to help me explain them to the interviewer and went into the interview.

**What are some critical topics/skills essential for the process?**

- Basic Programming Concepts
- Database Management Systems (MySQL and MongoDB)
- Server side scripting ( Python and NodeJS )
- How frontend interacts with backend
- Networking on the internet

Finally, the interviewer wanted to see me going in the right direction without any clue about the information more than anything. He told me : " I knew you had prepared the answers. I was pushing so I can know how you go about a task when you have no prior information about it"

**What kind of projects did you work on that were helpful to your selection?**
- I worked on backend projects in college, from where I was introduced to web development. I worked in DoTA, SWD making websites for our college itself and learning.
- In addition, I also sought out internships and did part time freelancing projects within this same field, making websites for institutes and organisations.
- All these projects helped me in my selections

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**Sources to help in preparation:**
There were a lot of sources from where I got my main knowledge, but I'll mention the top few here :
- GeeksforGeeks
- Stackoverflow
- Medium articles
- Official documentation of nodejs, mongodb

**Your suggestions to someone appearing for this company?**
The company looks for your approach to problems rather than total theoretical knowledge, although theoretical knowledge will be a criteria. So revise your basics, and more importantly, focus on your projects and what you have shown in your resume . Understand it, the fundamental differences, and be confident in what you say. That will be all that's required for the company.

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**Name:** Abhinandan vyas

**Recruitment Procedure:**
The first round was resume-based shortlisting. Second round was technical and HR. It mostly revolved around my internships and projects.

**Important CDCs and Electives:**
OOPS

**When did you seriously start preparing? How did you go about it?**
I started preparing in the 2nd semester.

**What are some critical topics/skills essential for the process?**
Vue, react, angular based projects.

**Sources to help in preparation:**
- Medium articles
- Official documentation of nodejs, mongodb
- Leetcode
- Gfg

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**Company Name: IBM**

**Eligibility:B.E ALL**

**CGPA Cut-off:0**

**Selects: 3**

**Role: Software Development Engineer Intern**

**Stipend: 40,000  per month**

**Selection Rounds: 3**

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**Name:** Shreyas R

**Recruitment Procedure**
- Round 1:
  This round had some logic-based activities. Nothing to prepare for, particularly.

- Round 2:
  The coding round. Had standard Leetcode medium level questions. Should be easy enough, if one has practised well beforehand.

- Round 3:
  Interview. There was only a single round, which started with a formal introduction. After that, there were some standard HR questions asked by one of the panellists. Then onward, it was a resume-grilling session for the majority of the time, followed by a short DSA and DBMS session. The interview ended with us asking any questions for the panellists.

**Important CDCs and Elective Courses:**
The core CS courses like DSA, DBMS, OOP, OS, etc. were the most useful. However, some electives which I had taken up (like ML, NNFL, etc.) helped in portraying myself better in the interviews.

**When did you start seriously preparing? How did you go about it?**
I started very late (20 days before the first company came). My advice is to start from the last month of 2-2, or at least once the end-term exams are done.
I was comfortable with DBMS and OOP from the beginning, so all I did was make sure I did not forget some key points which might be important in interviews. I was not very strong in DSA, so I started doing problems on Codeforces in the beginning, later switched to Leetcode and Interviewbit. By the time I got the SI, I was able to do up-to medium and some hard level problems on Leetcode.

**What were some critical topics/skills essential for the process?**
Make sure you are confident with whatever you have mentioned on your resume. Any particular topic/skill, except for core CS topics, wasn't critical for the process.

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**What kind of projects did you work on that were helpful to your selection?**
My projects were mainly based on Machine Learning. Since the company did not have a hard-and-fast job description, they were looking for people who had a proper knowledge about what they have done so far and what they have mentioned on their resume. So, it cannot be said that a project in a particular area was the game changer.

**Sources to help in preparations:**
- DSA - Codeforces, Interviewbit, Leetcode, Abdul Bari's lectures. CS students can get a decent hold if they do the problem sheets given by the DSA course instructors.
- DBMS - Gururaj sir's lectures and slides.Lab Sheets were very useful to practice SQL queries.
- OOP - Gururaj sir's lectures and slides, Java Complete Reference, and basically any website to look out for certain key points
- OS - Follow the lectures, slides and textbook (optional). Do some theory based GATE questions from GFG or any other sites once before the interviews.

GeeksForGeeks(GFG) for anything and everything.
Also look up on archives before attempting any round of any company.

**Your suggestions to someone preparing to appear in this company?**
Make sure you are very confident with what you have mentioned on your resume. That was what they were looking for - confidence of the candidate in his/her area of interest. Reflect your interest in technology during the interviews.
Nothing specific for coding rounds.

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**Name:** Meganaa Reddy

**Recruitment Procedure**
- 1st Round - Diff games and Puzzles
  A demo of each will be explained before, and you need to solve as many as possible within a time limit to maximize the score in each round. There were 5 different kinds of puzzles in this round.

- 2nd Round- Coding round
  A competitive coding question was given.
  There was one more sql query.
  Description: Two tables with some entries,primary key, foreign key was given, need to write the sql query for the information provided by the question

- 3rd Round- Interview
  Lasted for 45 min
  A Panel of 3 people were asking questions

    **1)** Tell me about yourself:
    I gave a brief introduction about my branch academics and interests in computer science
    **2)**What's the recent project you've worked on and tell us details about it?
    I explained about a chatbot android application that I've made and further questions were directed on this project
    **3)** Which database did you use for this project and why ?
    I answered relational database and gave the specific reason related to the project
    **4)** How were different entries stored in the database and how would you provide the level independence(Which I didn't implement , but he asked if you were to how would you go with it)
    I answered I would create user level external views and make the database independent from the higher level
    **5)** How would you pitch this project as a startup idea to the government?

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I answered the software level changes to be made before pitching, they asked on funding and its utilization, I felt I didn't answer it well, but was optimistic

**6)** They asked regarding the courses that I've done
I've answered information retrieval

**7)** Some basic questions on stochastic descent, linear regression , null hypothesis, k-fold splitting of dataset in ML and what's the use of it

**8)** An array of numbers with duplicates was given. retrieve the number with frequency of at least n/3 in $O(\log n)$ where n is the size of the array
Gave a bruteforce solution using hashmap

**9)** Spoke on search engine project and some questions directed on it

**Important CDCs and Elective Courses:**
DSA, OOPS,DBMS,IR,ML

**When did you start seriously preparing? How did you go about it?**
I didn't take sem 1 S-I seriously , and regretted a lot for not preparing seriously, since I had more opportunities in sem 1, compared to sem-2. I started preparing for sem-2 just after sem-1 compres ended in december. I stopped prioritizing attending classes and focussed on problem solving the entire day.

After consulting and talking to many people, even after doing the problems from training week dsa articles posted, I didn't gain the confidence and often would tend to forget the logic. Instead I completely changed my preparation strategy, spent a lot of time in figuring out the approach to solve problems belonging to diff topics from leetcode, I would solve topic wise problems for 1 month, then I realised that time's less and solved 2 topics simultaneously, one topic from morning- afternoon and other topic in night. When the time was sufficient I used to revise previously solved questions in the afternoon and new topics at night. I only did assignments for courses and studied one week before midsem to maintain my cgpa. Revising problems is what made me ready for the test anytime. For sem-2 SI which I gave , the online tests were getting better.

I was able to solve better with more practice. For the Interview I had my notes for OOPS, DBMS which I've thoroughly gone through. I wasn't sure of Operating Systems, since I had one week of preparation time, since my interview was postponed, I have

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completed an online course on operating systems to make my understanding clear, practiced some sql questions, and did all the previously asked questions of IBM available on leetcode Premium. This helped me to gain confidence in my domain skills.

**What were some critical topics/skills essential for the process?**
- Critical topics in online tests- DP, Graphs
- For interview - OOPS, DBMS, OS

**What kind of projects did you work on that were helpful to your selection?**
I highlighted and spoke about 2 of the projects in my resume.
The first one was AI based chatbot assistant for Alzheimer's patients
The second was Domain Specific Search Engine on vector space model in IR
The interviewing Panel asked questions related to these 2 projects and this lasted for like more than 20 minutes. I was confident on these projects and hence was able to speak up on these.

**Sources to help in preparations:**
Leetcode for DSA, Gururaj sir's class notes for OOPS,DBMS.

**Your suggestions to someone preparing to appear in this company?**
I googled the background of IBM and searched for its operations and services , and I focussed on those topics dealt by this company in general. Hence I brushed up my cdc's before the interview. Personally, personally leetcode is a good platform to start with if you have time. I searched for frequently asked questions on gfg and solved them on leetcode since leetcode contains suggested questions similar to those and also most recent questions asked along with the company tag.

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**Name:** Sheyril Agarwal

**Recruitment Procedure**
- Logical reasoning- mostly memory and object association based
- Coding Round- DSA type questions
- Interview Round- Resume based questions, writing demo code snippets

**Important CDCs and Elective Courses:**
OOP, DSA

**When did you start seriously preparing? How did you go about it?**
Off and on since December 2020 . Started with Leetcode medium and easy. Mostly stuck with medium questions. A few days before the interview, I revised some OOP concepts, did some leetcode questions and went through my resume.

**What were some critical topics/skills essential for the process?**
Basics of DSA and OOP should be very clear. Apart from that category, I was also asked quite a bit about good practices implementation practices in my interview round. Having good projects on your resume is also a major plus point.

**What kind of projects did you work on that were helpful to your selection?**
I had been working on backend development for the past 6 months, which I thought helped quite a lot. I had used GraphQL which also attracted a lot of questions. I also had a course project based on AI and a pet project based on NLP. I'm not particularly good at competitive coding and to be honest, I didn't really spend much time on it either. Instead, I took up projects I liked doing to offset it.

**Sources to help in preparations:**
Leetcode, Geeks For Geeks

**Your suggestions to someone preparing to appear in this company?**
Make sure you know about what you're writing in your resume. You'll get asked questions extensively on them. Also prepare on stuff like why you did things a certain way, if there was some advantage in doing things a certain way and so on. Be prepared

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to write code snippets to demonstrate your proficiency in your choice of programming language.

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# JPMorganChase

**Company Name: JP Morgan Chase**

**Eligibility:BE All, M.Sc. All, B. Pharm**

**CGPA Cut-off:0**

**Selects: 2**

**Role: Quantitative Analyst**

**Stipend: 1,00,000  per month**

**Selection Rounds: 5**

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**Name:** Anusha Agarwal

**Recruitment Procedure**

Round 1: Online test
- 30 MCQ questions in 35 minutes
- There were different sections for probability and statistics, coding mcqs, puzzles, and mathematics.
- probability and statistics – JEE level and MATH F113 level questions
- Coding mcqs- Predict output, errors
- Mathematics- Trigonometry, complex numbers
- Coding questions in 40 minutes
- Longest Arithmetic Progression(Dynamic Programming)
- Maximum Sum between two leaf nodes of a binary tree(Recursion )
- I had solved around 10-12 MCQs and both the coding questions.

Round 2: Technical interview 1
- The interviewer asked me to walk him through my resume. I spoke about my projects and PS-1 experience.
- As I had done a Machine Learning project, he asked me a few questions on logistic regression and data preprocessing.
- He asked 5-6 detailed questions on OOPS and asked about my personal preferences for choosing a model.
- He then asked a coding question to find 2 numbers in an array having a required product. I solved it in O(n) time complexity using hashtable.
- another question on array preprocessing.
- The last question was based on basic probability.

Round 3: Technical interview 2
- The first coding question was about finding repeating integers in an array. I solved it using a hash table. He then asked me about what hashing is. The next question was an extension to the last question where array elements are 0 to n-1 only. This was solved by altering the array. I was able to find edge cases also.
- The next question was pattern formation in string. For all the questions, I was asked time and space complexity.

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- After the coding questions, he asked me if I was comfortable with Linear Algebra and asked about Eigenvectors. I gave a partial answer to it.
- This was followed by a coding based puzzle- https://www.geeksforgeeks.org/count-minimum-right-flips-to-set-all-values-in-an-array/ . I came up with the solution in the first go and then he asked me to share my screen and code it on a text editor.

Round 4: Technical interview 3

- This round mainly focused on problem solving skills and mental aptitude. There were questions on probability, Permutation and Combination and puzzles. The main focus was over my thought process and it was okay to solve the questions using some hints.
- The first question was to find the probability of having corona if tested positive. The answer was based on Bayes theorem and total probability theorem. The interviewer was quite helpful as I was having difficulty in understanding the figures over video call. I asked a lot of questions and was ultimately able to find the answer.
- The second question was a puzzle game- https://www.academia.edu/2073761/The_Poisoned_Chocolate_Game where I had to find the method in which I could always win the game. I was able to come up with the solution for that case but failed to generalize it so she continued playing the game with me until I was able to generalize my solution.

Round 5: HR interview

- It was a telephone round. I was asked to describe myself, my family background and my future goals. The last question was why JPMC?

**Important CDCs and Elective Courses:**
Probability and Statistics, DSA, OOPS, Foundations of Data Science

**When did you start seriously preparing? How did you go about it?**
I started my serious preparations during PS1. I first read the theory, noted down the important topic wise questions and solved them on leetcode.

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**What were some critical topics/skills essential for the process?**
- DSA
- OOPS features
- Mental Ability

**What kind of projects did you work on that were helpful to your selection?**
- My projects were not so great back then but having a basic ML project helped me to portray that I know the topic.
- I had also done a cloud based web development project

**Sources to help in preparations:**
- Leetcode
- Geeksforgeeks
- InterviewBit

**Your suggestions to someone preparing to appear in this company?**
Many aspects of DSA are asked like DP, recursion, trees, arrays, hash tables but mostly the basic questions are asked so even if you are a non-CS student, you can manage to get through the process. Also, solve as many puzzles as possible.

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**Name:** Aviral Agarwal

**Recruitment Procedure**
- Online Test- The online test was subdivided into 2 parts
  Part A - 30 MCQs on puzzles, maths (prob stats, algebra) and programming, to be solved in 35 mins.
  Part B - Coding round with 2 problems (dynamic programming, binary tree) to be solved in 40 mins.

- Interview Rounds 1-3
  These were technical interviews, and questions were asked on DSA (dynamic programming, greedy, arrays), OOP, prob stats, pnc and puzzles.

- Interview Round 4-
  This was the HR round. Basic questions on hobbies, interests and expectations from the company were asked.

**Important CDCs and Elective Courses:**
DSA, OOP, Probability and Statistics

**When did you start seriously preparing? How did you go about it?**
I started preparing during my PS1. I solved topic wise questions on Interviewbit and Leetcode and referred to Geeks for Geeks for tutorials and previous year's questions.

**What were some critical topics/skills essential for the process?**
Dynamic Programming is very important. Several questions were asked on 1D, 2D DP in the technical interviews. Practicing puzzles from Geeks for Geeks will also be quite helpful.

**Sources to help in preparations:**
Geeks for Geeks, Leetcode, Interviewbit

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**Company Name: MathWorks**

**Eligibility: BE CS, ECE, EEE, ENI**

**CGPA Cut-off: 7**

**Selects: 4**

**Role: Intern in Engineering Development Group**

**Stipend: 40,000  per month**

**Selection Rounds: 4**

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**Name:** Mudit Chaturvedi

**Recruitment Procedure**
Coding Test : 10-15 MCQs from basic CS concepts, output based questions etc. 2 easy
coding questions only catch is that you need to code both in different languages.

**Important CDCs and Elective Courses:**
DSA, OOPS, and DBMS

**When did you start seriously preparing? How did you go about it?**
I started my preparation around July end. Practicing on InterviewBit, GFG and giving
contests on Codeforces. Material posted on the Training Group was also helpful.
Prepare specific topics from InterviewBit and GFG, and give contests to improve speed.

**What were some critical topics/skills essential for the process?**
Basic knowledge of DSA and OOPS. Prepare in advance for a couple of questions
based on your past experiences. Read about the company before the interview and stay
attentive during the company PPT.

**What kind of projects did you work on that were helpful to your selection?**
I had included the project that I did for PS-1, other than that, the OOPS project was
relevant to the role.
Don't write projects just for the sake of filling the resume. Even if you have just one then
it's fine provided that you can explain it properly and build your answers based on your
learning experiences.

**Sources to help in preparations:**
Codeforces, InterviewBit, GeeksForGeeks, Leetcode.

**Your suggestions to someone preparing to appear in this company?**
Read about the company before the interview and the details provided on superset.
Basic knowledge of CS concepts should be enough to get you through to the interview
rounds. Keep a few answers prepared along the lines of conflict resolution in your team
etc.

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For the Tech Interview, brush up OOPS concepts in at least 2 languages and in case of a coding/implementation question, don't start coding right off the bat, think out loud and keep the interviewer involved (though in most cases you won't need it because the questions will be fairly simple).
For behavioral questions relate all your answers to some personal experience.

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**Name:** Tanay Gupta

**Recruitment Procedure**
- Online Coding Round
    - DSA and OOPS MCQs were asked
    - 2 coding questions were also asked

- Round 2 Group Discussion

- Interview 1 -
    - Interviewers paid a lot of attention to the resume and asked a lot of questions regarding the projects (what you could have done better and shortcomings of the technique used) and previous work experience. They asked many behavioral questions like - what did you learn from your previous internships?, what are your core beliefs when working in a team? What do you think your teammates will say about you?

- Interview 2 (HR) -
    - General questions like hobbies and questions to see if you know about what the company does.

**Important CDCs and Elective Courses:**
I didn't do DSA or OOPS from college (since I was from ECE) but did online courses which helped a lot.

**When did you start seriously preparing? How did you go about it?**
I started preparing immediately after PS-1. I completed all programming questions from InterviewBit and occasionally gave CodeForces competitions. If you are new to competitive programming and would like to cover each topic in a structured way InterviewBit is a good option, otherwise you can try Leetcode too. my friends and 1 also had mock interviews once we were sufficiently prepared.

**What were some critical topics/skills essential for the process?**
Basic DSA, OOPS, a few good projects, and the ability to talk about them will help you massively.

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**What kind of projects did you work on that were helpful to your selection?**
All my projects revolved around Deep Learning - Face Recognition, Trigger Word Detection, Reinforcement Learning for NOC Design, and a project I did for PS1. The important thing here is to be able to talk about the projects.

**Sources to help in preparations:**
- InterviewBit,
- Leetcode,
- CodeForces
- GeeksforGeeks

**Your suggestions to someone preparing to appear in this company?**
- Make sure you have a good grasp of DSA concepts.
- Have a few good projects under your belt and practice talking about them.
- Be aware of good group discussion practices.
- Make sure to read about the company both on their site and about the job profile from the superset portal.

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**Name:** Shreya Gupta

**Recruitment Procedure**
The online coding round tested for basic DSA skills. They also tested us on our knowledge of different programming languages as we had to code in 2 different programming languages. We had to debate for/ against a topic in the group discussion round. The interview rounds focused on basic DSA, DBMS, OOP, Compilers, and OS. I was also questioned about my leadership skills. They asked me why I think Mathworks is a good fit for me**.**

**Important CDCs and Elective Courses:**
- DSA
- OOPS
- DBMS

**When did you start seriously preparing? How did you go about it?**
I started preparing in May. I solved programming questions on GFG, Leetcode, and InterviewBit. I also revised my OOP and DBMS concepts online. I learned a few new concepts under OS and Compilers.

**What were some critical topics/skills essential for the process?**
A thorough understanding of CS CDCs is important. Coding and Programming skills are the most essential. You also need to be a good debater to make it through the GD. Talking about one's leadership, time management, and team-player skills will help portray you in a good light

**What kind of projects did you work on that were helpful to your selection?**
I don't think the type of my projects was important as long as I was passionate about them**.**

**Your suggestions to someone preparing to appear in this company?**
Be confident and show them that you will prove to be a passionate intern.

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**Company Name: Micron**

**Eligibility: CS, ECE, EEE,EnI**

**CGPA Cut-off:7.5+**

**Roles: Firmware intern, Design intern, SDE intern**

**Selects: 3, 1, 3**

**Stipend: 50,000 per month**

**Selection Rounds: 2**

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**Name:** S Vignesh Bharadwaj

**Role:** Firmware intern

## Recruitment Procedure
- Initially, I was asked about my projects that I had listed in my resume, which also included the work I had done in my Practice School 1. Thereafter, the main focus was on Digital VLSI design, Microprocessors, and Interfacing.
- Since the job profile was firmware intern, they asked me about different types of memory technologies, especially flash memory, which is used in SSDs. CMOS logic-based questions were also asked.
- Since I had mentioned in my resume that I had done Computer Architecture, they asked me questions based on cache and multi-core processors. And I think it goes without saying, but I was also asked some programming-based questions, mainly on the topics related to arrays and linked lists.
- Additionally, I was asked questions related to my future plans, whether I will be going for higher studies or not, and whether I am interested in this internship that they are offering**.**

## Important CDCs and Elective Courses:
- C programming
- Digital Design
- Analog & Digital VLSI design
- Microprocessors and Interfacing
- Computer Architecture

## When did you start seriously preparing? How did you go about it?
- I started preparing towards the end of August. I mainly revised the concepts taught in digital design, microelectronic circuits, and C programming.
- I had done a course on Computer Architecture much before we usually do it in college and I think it helped me understand certain things and connect the dots even better.
- We were also doing ADVD in that semester so I didn't have to do anything extra for it, but I wish I had done it earlier on my own (at least the CMOS basics) as well, for a better understanding and a complete picture.

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- I did some problems based on finite state machines (FSM), static timing analysis (STA), flip-flops, counters, and CMOS circuits. Learning Verilog was also essential for me.

**What were some critical topics/skills essential for the process?**
The critical topics for me were CMOS logic and CMOS inverter, basics of digital design, memory hierarchy, and different types of memory technologies, mainly flash memory.
I think knowing python and OOP would be a pretty good advantage.

**What kind of projects did you work on that were helpful to your selection?**
- I had completed a project-oriented course called "NAND to Tetris" which was basically about modeling an entire processor using just NAND gates.
- Although it didn't directly help me get selected, it played a major role in my understanding of some concepts like the working of a processor, interfacing I/O devices with the processor, etc

**Sources to help in preparations:**
- http://www.vlsi-expert.com/p/static-timing-analysis.html - For STA
- https://youtube.com/playlist?list=PL3pGy4HtqwD1X9CXdgXMTVGjb7rYd-qr6 - NPTEL for ADVD, beautifully taught... For anyone who wants to start preparing much earlier
- http://web.mit.edu/6.111/www/f2005/tutprobs/fsms.html - some nice FSM questions

**Your suggestions to someone preparing to appear in this company?**
- You can mention any projects, even if it is in a different field, as I feel that they look for dedication more than work experience at this point of time. But make sure you know what you have done in that project as you will have to explain it properly.
- It is good to know about the company and the work that they do before you sit for the interview.
- Other than that, just go with a positive attitude, and hope for the best. Try not to panic if something goes wrong in the middle of the interview, it will only lead to the rest of the interview going worse.

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**Name:** P Smriti

**Role:** Design intern

**Recruitment Procedure:**
- In the interview round, the questions asked were mainly centered around digital design and basic ADVD.
- My interview lasted about 45 minutes. We first started by discussing the projects I had mentioned on the resume.
- Then we moved to the interview questions. The broad category of the questions asked:
    1. Working of flip-flops and latches
    2. Set-up and Hold time concepts
    3. Function implementation with Minimum number of muxes
    4. Pull up and pull down effect of PMOS and NMOS
    5. Gate construction using Static CMOS logic
    6. Verilog code for flip flop implementation
    7. Other minor concepts associated with the above were also asked and discussed.

**Important CDCs and Elective Courses:**
- Basic Electrical sciences
- Digital Design
- Electronic Devices
- Microelectronics Circuits
- Analog and Digital VLSI Design (ADVD)
- All the above CDCs were helpful in preparation for the interview. However, digital design and ADVD were the most important ones.

**When did you start seriously preparing? How did you go about it?**
I started with revising the digital design and microelectronic circuit concepts around mid-September as SI preparation in general. There wasn't much gap between resume shortlisting and the interview. So, I had briefly brushed up some selected topics from 2nd year CDCs and ADVD before the interview.

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**What were some critical topics/skills essential for the process?**
As the profile was for design engineer, Verilog HDL was an important skill required

**What kind of projects did you work on that were helpful to your selection?**
I had worked on a prefix adder design project which was helpful. The project had strengthened Verilog concepts for me. As the project was in the digital design domain, it had helped significantly in understanding the basics.

**Sources to help in preparations:**
Class notes or lecture slides for CDCs will help. Also, I would suggest reading Verilog HDL by Samir Palnitkar to be thorough with Verilog.

**Your suggestions to someone preparing to appear in this company?**
Be thorough with concepts of digital design and microelectronic circuits. Have a good clarity on the work you have done in the projects mentioned. Additionally, I would recommend having a good knowledge of VLSI design and HDL

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**Name:** Keshav Kabra

**Role:** Firmware intern

**Recruitment Procedure**

- Resume Shortlisting
  I made sure that I had a crisp resume, defining my experience and goals. I did not have any projects related to Electronics in general, however, I had mentioned my PS1 in an Electronics Company. I had also mentioned my Coding Projects and Course Projects.

- Technical Interview
  The interview was over Zoom, approximately 1 hr 15 min
  It was broadly across these topics

  1. Resume and Projects
     I was asked in detail about my PS1 projects and the other projects mentioned in my Resume. Make sure you know what you have done/written.

  2. Basics of EEE
     - Questions were asked on the basics of structure and working of MOSFET.
     - Working on each mode of FETs.
     - In what configuration can MOSFETs be used as amplifiers?
     - What do you know about NAND-based memory structures?

  3. Programming & Problem Solving
     - It first started with basics of C programming, Memory allocation Concepts
     - Why don't modern programming languages have the concept of Pointers

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- How stack and queues are implemented in C and what architecture do they follow.
- Basic OOPs questions in C++
- What are the different primitive and advanced data types in Python
- What are the basics for building a Recursive Algorithm.
- Difference between Tuple and List in Python.
- What are Regular expressions and how are they implemented in Python

4. Logical Reasoning
   - 100 Coins puzzle
   - Car fuel puzzle (Least number of refills required)

**Important CDCs and Elective Courses:**
- Electronic Devices,
- MEC,
- Digital Design,
- Computer Programming,
- Information Retrieval (for regular expressions and Python)

**When did you start seriously preparing? How did you go about it?**
I did not explicitly prepare for the Role. I was confident about the fundamentals of Programming and revised stuff from MEC and Electronic Devices.

**What were some critical topics/skills essential for the process?**
- Basics of Amplifiers and MOSFETs are essential.
- Having a good hold on Basics of Programming.
- Being Comfortable in working with Python and its packages.

**What kind of projects did you work on that were helpful to your selection?**
I had done Course projects in Computer Graphics and Information Retrieval, which really helped in getting comfortable with the advanced use of Python Libraries and C++.

**Your suggestions to someone preparing to appear in this company?**
1. For this Role, be clear with your Electronics and Electrical Basics.

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2. Be comfortable in coding in at least 2 languages. Have in-depth knowledge of the concepts.
3. Be clear in Communicating your ideas to the interviewer, and speak freely**.**
4. You will never get enough time for Preparation before the Tests or interviews, just be conceptually clear with what you learn every day.

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**Name:** Pranith Shauri Kallakuri

**Role:** SDE intern

**Recruitment Procedure**
The interview was fairly simple. The interviewer started off by asking basic CS F111 related questions, some basics from memory management (OS course was very helpful for this part) and asked if I had had any background in ML/AI followed by some very basic questions on them. He then asked me to give a brief about the projects I had done. He ended off with a basic question on linked lists (It was directly from GeeksForGeeks)**.**

**Important CDCs and Elective Courses:**
Computer Programming, DSA, OS, FODS, basics of ML

**When did you start seriously preparing? How did you go about it?**
Although I had started doing some coding practice throughout my 2-2 and PS1. I seriously started preparing around 2 weeks before the beginning of the internship drive**.**

**What were some critical topics/skills essential for the process?**
- DSA, ML basics
- Do not bluff on your resume, make sure you can explain every project on it clearly.
- Remember to communicate well with the interviewer, think out loud while answering a question. If you're stuck on a question, let the interviewer know where you're stuck and explain your thought process.

**What kind of projects did you work on that were helpful to your selection?**
There weren't any projects that necessarily were helpful/stood out on my resume. Just make sure you are able to clearly explain them to the interviewer**.**

**Sources to help in preparations:**
- GeeksForGeeks
- Interviewbit
- Leetcode

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**Name:** Ganesh Reddy Kotamreddy

**Role:** Firmware intern

**Recruitment Procedure**
- The first round was a Resume Shortlisting Round

- The second round was a Technical Interview Round.
  I had my technical interview via zoom and it ran for about 55 mins. A lot of focus was paid to the resume. Apart from that, there were also a lot of behavioral questions. Following are some of the questions and topics from which I was asked during my interview:
    - Describe the most interesting project that you have done.
    - Basic programming question (Algorithm to convert a decimal number to binary and output the number of ones and zeros)
    - A basic logical question (Fill the jar)
    - What is the difference between Queue and Stack (DSA)
    - What is the difference between Circular Linked List and Doubly Linked List (DSA)
    - Implementation of Doubly Linked List using single pointer (DSA)
    - Implementation of Doubly Linked List using the concept of XOR (DSA)
    - What are real-world uses of Normal Distribution (Probability and Statistics)
    - What are the possible advancements and challenges of using IoT in agriculture (IoT and project done in IoT)
    - Basic outline of other projects in the resume (3 other projects based on microprocessors, IoT with Artificial Neural Networks, and Python GUI Programming)
    - Why would there be less memory to store the data than the memory specified (i.e., we get only around 29 GB in a 32GB drive). This question was based on Firmware (intern role)

**Important CDCs and Elective Courses:**
- Digital Design
- Data Structures and Algorithms (DSA)

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- Internet of Things (IoT)
- Probability and Statistics (Not important)
- Microprocessors and Interfacing
- Coding/Programming (C Programming, OOPS, ML - Python)

**When did you start seriously preparing? How did you go about it?**
- I have started preparing from my second year during the lockdown due to Coronavirus Pandemic.
- I started with learning a few programming languages like C++ and Python. Then I started to focus on topics in DSA. I had an amazing learning experience at my PS1 station.
- At the beginning of the third year when the companies started coming for Summer Interns, I started revising second year topics like IoT, Digital Design, Microprocessors.

**What were some critical topics/skills essential for the process?**
- Good clarity in concepts of Digital Design is a must. Basic definitions and concepts in DSA are important.
- A basic understanding of IoT and Microprocessors is good. Coding in python or other languages is an added advantage.
- Learning concepts related to NAND, DRAM, Flash Memory is optional but will help during the internship.

**What kind of projects did you work on that were helpful to your selection?**
- My work in PS1 based on IoT and Artificial Neural Networks was helpful to me to understand a few concepts of IoT, programming and develop good communication skills.
- My project during the microprocessors course - Smart Irrigation System Using Arduino Uno helped me understand the concepts of microprocessors and IoT.
- Few basic projects based on GUI programming in Python gave me an understanding of coding in python as well as helped me develop some problem solving and analysis skills.

**Sources to help in preparations:**
- Class notes materials, and lectures for the above CDCs and DELs

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- Geeksforgeeks,
- Coursera, Udemy
- Offline classes for Programming languages and DSA.
- NPTEL videos for some concepts in electronics.

**Your suggestions to someone preparing to appear in this company?**
- One thing I would suggest to someone appearing in this company is that it helps a lot if you are regular and clear with basics in Digital Design, Programming Languages, DSA, Microprocessors, and IoT.
- You may not get the expected and required preparation time or environment you want to have every time. You can't really depend on the last moment studying to ace a test or an interview for any company.

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**Name:** Sukrit Kapil

**Role:** SDE intern

**Recruitment Procedure**
- Resume Shortlisting: Shortlisted around twenty students based on their profiles as required by the company.

- Technical Interview:
    1. Questions based on DSA, DBMS, OOPS, Projects.
    2. Basic DSA questions related to sorting and recursion.
    3. DBMS and OOPS theory-related questions on Normal Forms, SQL queries, OOPS concepts etc.
    4. Project-related questions were on ReactJS and NodeJS. (Web Development)

- HR Interview
  Projects Discussion and some behavioral questions.

**Important CDCs and Elective Courses:**
- DSA
- OOPS,
- DBMS,
- SE (Software Engineering)

**When did you start seriously preparing? How did you go about it?**
- Started preparing around the end of the summer (after PS1).
- Solved DSA questions from GFG, code forces, etc.
- Brushed up OOPS, DBMS concepts before the interview.

**What were some critical topics/skills essential for the process?**
- Extensive practice of DSA questions.
- Know the concepts of DBMS and OOPS.
- an overview of the projects and technologies you have used.

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**What kind of projects did you work on that were helpful to your selection?**
● Android,
● Web Development Projects

**Sources to help in preparations:**
● GFG
● Interviewbits
● Codeforces

**Your suggestions to someone preparing to appear in this company?**
● Keep your resume good. Do add any technical projects you have done and also have an extensive idea about the technologies you used.
● Practice more and more DSA, which is the most important criteria for your selection.
● Good grasp over concepts of OOPS and DBMS.

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**Name:** Anirudh Sood

**Role:** SDE intern

**Recruitment Procedure**
Resume shortlisting followed by one interview with project manager
Started off with general questions followed by them asking about every technical proficiency/subjects i had mentioned in my resume. Only CS branch students were shortlisted so they asked problems on OOP and DSA primarily. They also took a keen interest in projects that i had mentioned in my resume

**Important CDCs and Elective Courses:**
- OOP
- DSA

**When did you start seriously preparing? How did you go about it?**
- Just a month before the beginning of the internship cycle.
- I primarily followed resources provided by PU and Crux along with questions from leetcode and interviewbit.
- Try giving a few contests in order to get used to a competitive environment.

**What were some critical topics/skills essential for the process?**
Be very confident in OOP and DSA. These are the major topics that are asked in any interview process. Whenever they ask to construct an answer for a DSA question, make sure to follow it by complexity analysis. Make sure whatever programming language you mention in your resume, you know all the major details

**What kind of projects did you work on that were helpful to your selection?**
The mini-project we did as a part of our OOP course was helpful. I was confident in explaining that and they seemed satisfied

**Sources to help in preparations:**
- Leetcode,
- Interviewbit,
- DIV3/DIV2 contests in codeforces

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**Your suggestions to someone preparing to appear in this company?**
Be thorough in basic concepts. Don't be shy in an interview to clarify your doubts in the questions asked. Make sure that whenever you are telling your answer, the person listening follows every step.

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**Company Name: Microsoft**

**Eligibility: CS, ECE, EEE,EnI**

**CGPA Cut-off: 8**

**Roles: Software engineering intern**

**Selects: 28**

**Stipend: 80,000 per month**

**Selection Rounds: 4**

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**Name:** Kriti Jethlia

**Recruitment Procedure**
- Online test:
  In this round, 2 questions were asked. Both of them were standard questions and were quite similar to archives. Questions were random for everyone.
- First interview
  The round was entirely DSA based and two questions were asked. One was based on Tree and the other was based on two pointer technique. I was supposed to write the code and explain it but the execution wasn't expected.
- Second interview
  The second round was a mix of DSA and concepts of OS. Since OS wasn't taught till then, the questions were based on my understanding of it. I was expected to code and write the code and execute it as well.
- Third interview
  Third round was a mix of HR and OOP concepts. I was asked to introduce myself, followed by questions based on my projects and resume and certain technical questions.

**Important CDCs and Elective Courses:**
- DSA
- OOP
- DBMS
- SE

**When did you start seriously preparing? How did you go about it?**
I started my preparation during PS1 by solving questions on Leetcode, Interviewbit and giving contests on Codeforces. Before giving the test and interviews, I also looked into archives and interview experiences as well.

**What were some critical topics/skills essential for the process?**
Mostly, basic knowledge about DSA is important. Apart from that OOP and DBMS are also important.

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**What kind of projects did you work on that were helpful to your selection?**
All the projects I had on my resume were course projects OOP, DBMS and SE. My resume was largely a web development based resume because of SE and PS 1**.**

**Sources to help in preparations:**
- GeeksforGeeks
- Interviewbit
- Leetcode

**Your suggestions to someone preparing to appear in this company?**
Practicing questions is important. Apart from that, be confident while answering the questions. Explain your approach clearly to the interviewer. They will generally help you out if you are going in the wrong direction. Believe in yourself, you can do it :)

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**Name:** Mereddy Aishwwarya Reddi

**Recruitment Procedure**
I was asked to code an algorithm - a straightforward one. No OOP or DBS questions were asked.

**Important CDCs and Elective Courses:**
DSA, DisCo, OOP

**When did you start seriously preparing? How did you go about it?**
I had started preparing properly only 2 weeks before the interviews started. I started with InterviewBit and midway went on to solve some problems on Leetcode.

**What were some critical topics/skills essential for the process?**
Nothing in particular apart from DSA

**Sources to help in preparations:**
- Interview Bit
- Gfg
- Leetcode
- DSA
- DisCo assignments

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**Name:** Anirudh Agrawal

**Recruitment Procedure**
- Coding round
  In this round questions were more or like what we practice for competitive rounds
- Interviews
  The question was mostly centered around DSA, OOPs, DBMS etc; and some programming questions, where we were asked to write code for them.

**Important CDCs and Elective Courses:**
OOPs, DSA, DBMS

**When did you start seriously preparing? How did you go about it?**
I started solving interview questions from several websites after my PS1 got over.

**What kind of projects did you work on that were helpful to your selection?**
Course project of OOPs and also PS1 work

**Sources to help in preparations:**
GeeksForGeeks, InterviewBit

**Your suggestions to someone preparing to appear in this company?**
Don't put anything that is not true on your resume, and be confident while speaking.

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**Name:** Saumya Shikhar Mishra

**Recruitment Procedure**
The online coding round had 3 DSA questions, pretty basic but one had to be careful of using the correct version of CPP or C, as by default it was an older version and many people did not notice it. Hence they had trouble using STL. The interviews also had DSA questions, with a brief description of the PS project and a question on OOP

**Important CDCs and Elective Courses:**
- DSA hands down is the most important subject. If your DSA is strong, 80% of your prep is done.
- People were asked questions on OOP and DBMS as well, and it does not reflect well if you are not able to answer basic questions. Nothing besides these 3. OS questions may be asked but you can say that it hasn't been covered yet.

**When did you start seriously preparing? How did you go about it?**
Started slowly through April-May, buckled up good in July-Aug

**What were some critical topics/skills essential for the process?**
DSA is absolutely essential, while competitive coding would really help to a very great extent**.**

**What kind of projects did you work on that were helpful to your selection?**
My resume had my DBMS, Crypto and PS Project. Only details on the PS project were asked, no grilling as such.

**Sources to help in preparations:**
Prepare DSA from interviewbit.com. It has decent questions. The concepts must be clear. For Microsoft, doing past year questions from GFG also helps a lot.

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**Name:** Kushagra Lavania

**Recruitment Procedure**
- The Online round had 3 coding problems, all of which were from archives available on Geeks for Geeks
- The interviews had DSA problems including a few standard problems and some open ended problems.
- We were also asked about two projects of our choice in detail.

**Important CDCs and Elective Courses:**
- DSA
- Basic concepts of OOP/DBMS for explaining projects were needed.

**When did you start seriously preparing? How did you go about it?**
I had been actively participating in codeforces contests in first and second year.Rest, practice school and course projects helped me to show relevant technical knowledge in other areas.

**What were some critical topics/skills essential for the process?**
Algorithmic problem solving the major skill, followed by OOP.

**What kind of projects did you work on that were helpful to your selection?**
Practice School, OOP project and a mini-game built in school as part of board exams.

**Sources to help in preparations:**
One needs to be able to solve around 1400-1700 rated problems on codeforces to solve the problems within the given time, it is even better if one is higher rated because it gives the interviewer a positive impression if one is able to solve them before the interview ends and he/she is asked more questions from other fields.
Going through the Geeks for geeks archives helps a lot in the online test.

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**Your suggestions to someone preparing to appear in this company?**
- Practice regularly, even if you are not interested in advanced CP, atleast cover the basics of binary search, greedy, dp, two pointers, C++ stl(for cleaner solutions), brute force(clever brute force was the solution for 3/4 problems).
- Also, go through the archives before the online test to know the breadth you need to cover.

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**Name:** Vashi Chaudhary

**Recruitment Procedure**
- Technical Round
  This round was based on basic data structures stuff like arrays and strings. Questions like calculating mean, median and mode and sorting based questions were asked. there were a total of 3 questions and 90 mins were given for the test. Most of the people were able to finish it in 30 mins. A total of 50 students were selected after this round.

- Interview 1: The first interview was about solving a basic question about BST and a question to find the minimum number of days to another day with greater rainfall. I started by giving the brute force solutions and then we moved on to find the optimal solution. I tried to blabber whatever I was thinking.

- Interview 2 : In the second round, I was asked some questions related to my projects in which I had to explain my projects and then I was cross-questioned based on it. I was further asked one or two basic questions about DBMS and OOPS concepts. After this, I was again asked a DSA question - Given a stream of numbers, output the product and sum of the last k elements. Was supposed to be done in O(1).

- Interview 3 : The interviewer asked me to implement all heap operations from scratch. A few questions were asked on my projects.

**Important CDCs and Elective Courses:**
- DSA
- DBMS
- OOPS

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**When did you start seriously preparing? How did you go about it?**
- I started preparing around July after the PS-1 ended but I would suggest everyone to start preparing a little early.
- I used to do 10 questions of DSA from geeks for geeks each day(sources attached below). After finishing the basic algorithms and questions, I moved on to leetcode and did random topic questions of easy and medium difficulty.
- I used to go through the solutions of some common hard level questions as well. Along with this, i revides all the OOPS and DBMS concepts using the slides and geeks for geeks. I revised some SQL queries also.

**What were some critical topics/skills essential for the process?**
- DSA
- DBMS
- OOPS
- Web/app dev
- Crypto

**What kind of projects did you work on that were helpful to your selection?**
I have worked on projects in various domains like development, Blockchain and Machine Learning. I also had a research paper in my resume, which I think, helped a lot.

**Sources to help in preparations:**
- https://www.geeksforgeeks.org/top-algorithms-and-data-structures-for-competitive-programming/
- https://www.geeksforgeeks.org/must-do-coding-questions-for-companies-like-amazon-microsoft-adobe/

**Your suggestions to someone preparing to appear in this company?**
- Do maximum preparation for DSA.
- Revise OOPS and DBMS concepts properly
- Communicate well with the interviewer
- Be Confident

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**Name:** Nitish Mittal

**Recruitment Procedure**
- Test
  The test was fairly simple compared to any other SI test I have given. There were simple DSA based questions that you will have probably seen somewhere (or maybe something similar) while preparing for SI.
  I only had to go through 2 rounds of interviews.
- Round 2
  The interviewer asked me about 2 questions based on Stack, and the other one was based on the 2D array (I was seriously expecting more difficult ones. Maybe lucky). While coding, the interviewer asked me questions based on what I was writing, like, will this work if we do this. Questions related to edge cases time complexity.
- Round 3
  The coding part was very simple. I was just asked to reverse every word in a string. But the interviewer kept on putting pressure, saying you have to consider everything. Just keep thinking. IMO he just wanted to see how I would react if he put on the pressure. Other than that, he asked me questions like why being from an electrical background; I want to go for software.
  Asked me questions related to my past experiences and projects. This part took most of the time in the interview.

**Important CDCs and Elective Courses:**
CS F111

**When did you start seriously preparing? How did you go about it?**
- I was always into coding from my first year. Once in a while, I used to give contests on code forces and perform really bad, but this kept me in touch. In my second year, I got into Dev.
- In the 2 months of holiday after the second year, I started with DSA and CC. I used to do this earlier but wasn't following seriously.

**What were some critical topics/skills essential for the process?**
- DSA,

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- Language of your choice.
- Proper understanding of all your projects.
- As far as i know none of the phoenix candidates was grilled on questions from topics like OOPS, OS or Comp Nets.
- There was only logic-based.
- They did expect you to know the language you choose to code in properly.

**What kind of projects did you work on that were helpful to your selection?**
- I did two projects in the domain of GameDev on Unity, and they were live on play store
- I had worked on simulations on Unity for my PS (Kalam labs aka Elixar Systems).
- I had one project for gamification of HR again on Unity.

**Sources to help in preparations:**
You already know all the sources. Just keep pinging your seniors for their guidance

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**Name:** Rohan Maheshwari

**Recruitment Procedure**
Round 1 with simple DSA questions and 2 rounds of coding interview

**Important CDCs and Elective Courses:**
OOP, DBMS, DSA

**When did you start seriously preparing? How did you go about it?**
Started preparing in 2-2. Contests on Codeforces, Codechef and AtCoder

**What were some critical topics/skills essential for the process?**
Problem solving

**What kind of projects did you work on that were helpful to your selection?**
Worked on a NLP project in my PS1 at Happiest Minds

**Sources to help in preparations:**
Codeforces, Codechef, Leetcode, InterviewBit

**Your suggestions to someone preparing to appear in this company?**
Sound knowledge of DSA for coding round and OOP for technical interview

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**Name:** Eranki Venkata Jhahnavi

## Recruitment Procedure
- First round ,
  I was asked questions based on OOPs concepts and little on DSA with a simple coding question.
- Second round
  It was a HR round

## Important CDCs and Elective Courses:
No , As I am an EEE student, I couldn't get any relevant courses. So I had to develop individually to get my coding skills improved.

## When did you start seriously preparing? How did you go about it?
Starting in  my 2-1, I took part in a few contests related to coding. As part of the codess program there were coding rounds and interviews. I started practicing coding to give my best as possible in these contests. So preparing for these helped me.

## What were some critical topics/skills essential for the process?
- DSA,
- OOP concepts
- coding skills

## Sources to help in preparations:
I referred to Geeks for Geeks and Tutorialspoint. And practicing in Hackerrank etc platforms**.**

## Your suggestions to someone preparing to appear in this company?
Practicing coding and referring to DSA and OOP concepts.

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**Name:** Pranav V Grandhi

**Recruitment Procedure**

Coding round

- 3 questions were asked. They were relatively simple compared to other companies. The questions were infix to postfix, euler totient function using Euclid GCD and some string manipulation questions.

- There were three interview rounds. It was varied for everyone. For me, the first 2 were technical rounds and the last one was HR, but some people had all three technical rounds as well. I was asked questions about my resume, my previous work experience and my projects. After this, each interview had 2 coding questions which had to be solved in front of them. They expected the solution with the best time complexity for each question.

**Important CDCs and Elective Courses:**

- DSA,
- Discrete Structures in Computer Science
- database systems and object oriented programming were helpful. If the interviewer asks questions about OS, we could tell them we were still doing that course.

**When did you start seriously preparing? How did you go about it?**

- I started preparing for SI about 3 months before it started. I learnt the basics of STL in C++.
- I then learned all the basic data structures and their implementation.
- For algorithms, I practised questions on leetcode and interview bit based on the topic I was studying at the time.

**What were some critical topics/skills essential for the process?**

I feel like the basics of data structures and algorithms are important. Apart from that quickly implementing all these in a language like c++ is necessary. Also, practice in standard dynamic programming problems help since almost any interviewer will ask one question from that. For my case, my resume helped since it had many projects that I could talk about for a long time.

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**What kind of projects did you work on that were helpful to your selection?**
I have interned in 2 startups and did my PS1 in IGCAR when I applied for SI. My project in ICGAR was interesting and was helpful since the interviewer was curious about that. Also, the projects we did as a part of OOPS and database systems were helpful as they were an indication of our skills in that area.

**Sources to help in preparations:**
- Leetcode
- Interviewbit
- geeks for geeks

**Your suggestions to someone preparing to appear in this company?**
- Make sure that your basics of DSA are strong.
- Dont lie in your resume
- Be thorough with everything you wrote in your resume
- Learn all the standard CC questions cause many are repeated in many companies**.**

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**Name:** Sanghita Chakraborty

**Recruitment Procedure**
- Since I was a part of ENGAGE-2020, I didn't have to sit for the first online coding round. I had to give two interviews instead.
- First interview
  It was DSA based where they focused majorly on BST and Linked List.It was for around 45 minutes.
- Second Interview
  IT was a mix of technical and HR which lasted for more than 1 hr . He asked me about my previous internship as well as asked me to present the project that I did during the Engage Mentorship. He asked kinda tricky questions related to the project and then jumped to trees and linked list related questions. He asked me about the questions that were asked in the previous interview and tried to ask a few questions related to those. And then towards the end , few HR questions were asked - "why should we hire you?" was one of them.

**Important CDCs and Elective Courses:**
Due to bad PR I didn't get a chance to do any of the useful CS electives. So I prepared from online materials

**When did you start seriously preparing? How did you go about it?**
- I mainly started on march 31st. Initially started with codeforces but then later shifted to few other sites. I didn't stick to any particular site ..tried practicing from different sites (wouldn't suggest others to do this though).
- InterviewBit is a good site and there is a github link for company specific LC problems. IB is most preferred and I really like the way they track the progress. I find that motivating xD.
- However midway during my internship, I stopped practicing due to too much workload but I would suggest you guys to be careful about that. Even if you have any internship/PS-1 do not skip the preparation for internship drive. Not a good idea to depend on PPI :(

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**What were some critical topics/skills essential for the process?**
Well particularly saying about the codess process - Be thorough with the project that you have done under them. And for DSA, they asked a lot related to trees and linked list so focus on those topics

**What kind of projects did you work on that were helpful to your selection?**
I had one internship experience with Google. Even though it was hardware related, the tag still matters. I was also part of JP Morgan Quant research mentorship so these kinda helped to boost my resume and I mentioned the projects that I did under them in my resume. I didn't have any course project before the interview but for students who have done OOPS can mention that project and anything related to CS.

**Sources to help in preparations:**
- InterviewBit
- Geeks for geeks

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**Name**: Pranavi Marripudi

**Important CDCs and Elective Courses:**
- DSA
- DiSCo

**When did you start seriously preparing? How did you go about it?**
I started after finishing PS 1. Started following training sessions by PU and solved questions from InterviewBit

**What were some critical topics/skills essential for the process?**
- Problem solving
- DSA

**What kind of projects did you work on that were helpful to your selection?**
Worked on AI search algorithms as a part of a mentorship program by Microsoft. Almost 20 minutes of my interview was based on this.

**Sources to help in preparations:**
GFG, InterviewBit

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**Name:** Rahul R Shevade

**Recruitment Procedure**

- Coding round: standard DSA questions available online.
- Interview round 1: DSA questions; mostly related to priority queues, and some math related.
- Round 2: a bit about resume, more DSA questions, a bit harder than first round
- Round 3: mostly HR questions

**Important CDCs and Elective Courses:**
Data Structures and Algorithms, Discrete Structures in Computer Science

**When did you start seriously preparing? How did you go about it?**
Started in June end/July. I would solve questions on Leetcode, interviewbit with my friends so that I wouldn't get frustrated/bored. But if you get easily distracted you may end up wasting time. Other than coding, once I was shortlisted I had about 1-2 days to prepare DBS, OOP etc, concepts. I just went through some of the important slides, and on the internet I looked up some popular questions asked in interviews.

**What were some critical topics/skills essential for the process?**
Knowledge of DSA was essential. And not just knowing them but also applying them in different sorts of problems.

**What kind of projects did you work on that were helpful to your selection?**
I had a project in PS-1 related to some ML and topic modelling. It was the only project that I had apart from course projects on my resume. So I explained that in my interview round.

**Sources to help in preparations:**
Leetcode, Geeksforgeeks, Interviewbit. If you are already a good coder you can participate in codeforces competitions as well to get exposed to harder problems.

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**Your suggestions to someone preparing to appear in this company?**
Solve a good number of problems from these websites so that you get an idea of how to at least approach any problem. I probably got lucky that I wasn't asked any questions other than DSA, because I had only a couple of days to study the other subjects which was very hard. Start coding early in the summer and for non DSA questions about one week should be enough to go through the slides.

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**Name:** Vishesh Badjatya

**Recruitment Procedure**
Online coding round, 3 Rounds of Technical Interview
First two rounds were DSA along with a little discussion on resume. Third round was
based on CS concepts like OOP, DBMS, OS etc

**Important CDCs and Elective Courses:**
- DSA,
- DBMS,
- OOP

**When did you start seriously preparing? How did you go about it?**
I knew programming and DSA concepts due to the college curriculum.
I just followed the crux training program a little and did questions on interviewbit about a
month before the SI drive.

**What were some critical topics/skills essential for the process?**
DSA was a must as two rounds were solely based on problem solving and DSA.

**What kind of projects did you work on that were helpful to your selection?**
I have taken data science courses as my electives. So the course projects were enough
to talk about in the interview.

**Sources to help in preparations:**
Interviewbit

**Your suggestions to someone preparing to appear in this company?**
Try to cover all topics of DSA, at least medium level on interviewbit. Also doing
company specific tagged question helps a lot

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**Name:** Suyash Tandon

**Recruitment Procedure**
- Coding Round: 3 Questions were asked 2 of them being very easy and one was moderate level. Overall this round was easy.
- Interview Round 1: Basic standard questions on stacks, Binary trees were asked and the interview ended with a quick maths puzzle.
- Interview Round 2: Interviewer asked to build a new data structure to do some specific tasks as the interview progressed he asked to add on functionalities on the same data structure to make the question more complex.
- HR Round: Questions on resume projects and PS-1 internship were asked and ended the interview with a question that could be solved using merge sort algorithm

**Important CDCs and Elective Courses:**
DSA

**When did you start seriously preparing? How did you go about it?**
After the lockdown in march 2020 I started doing competitive coding and gave all the contests for 3-4 months. 1 month before the intern season I solved questions from interviewbit.

**What were some critical topics/skills essential for the process?**
Problem Solving skills, Good Command on DSA, Doing Competitive coding always helps

**What kind of projects did you work on that were helpful to your selection?**
I just had the course projects of CDCs and PS-1 projects. Just be thorough in them and it will be fine.

**Sources to help in preparations:**
Codeforces, Geeksforgeeks, Interviewbit

**Your suggestions to someone preparing to appear in this company?**

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Just be good with DSA and Problem solving. Always be honest in the interview

**Name:** Riya Raj

**Recruitment Procedure**
I was a part of Microsoft Engage and Codess Program, so I only had to give one round of interviews. For codess, we had to give a test and later we were given a project to finish as a part of the engagement program. As I was a part of codess, I was asked a lot of questions related to my project. Also I was asked some questions on DSA concepts and solved a programming question.

**Important CDCs and Elective Courses:**
- DSA
- OOPS
- Basics of Computer Programming

**When did you start seriously preparing? How did you go about it?**
Around April. I used to practice questions, solve problems and go through interview questions from various sites like codeforces, geeksforgeeks, hackerrank, etc. I worked on building my resume.

**What were some critical topics/skills essential for the process?**
DSA, OOPS, AI, Basics of Computer Programming

**What kind of projects did you work on that were helpful to your selection?**
The AI project I did as a part of Engage and Codess was the most important factor that helped in my selection.

**Sources to help in preparations:**
- Geekforgeeks
- CodeForces
- Hackerrank

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**Name:** Mihir Bansal

**Recruitment Procedure**
- Coding round- Moderate/easy programming questions were asked based on data structures and algorithms.
- 1st Technical Interview - In this round, I was initially asked about my projects. Then, I was given a question on Trees, which I had to code and dry test it with 2-3 test cases. Then he asked a question on strings, again which I was expected to code.
- 2nd Technical Interview - In this round, the interviewer asked me about my project during my PS-1. Then he gave me a programming question based on heaps. After that he gave me a system design problem in which I had to explain different aspects of the solution related to DBMS and OOPS. He wanted to check my approach towards solving system-design problems.
- HR Round - This was the last round. The interviewer asked me some general questions. He told me about Microsoft's aim, his life at Microsoft, etc. Then he asked some questions related to OOPS and a problem on linked lists, which I had to code.

**Important CDCs and Elective Courses:**
DSA, OOPS, DBMS

**When did you start seriously preparing? How did you go about it?**
I used to practice on codeforces from my 2nd year. For SI, I started solving topic-wise questions from InterviewBit and LeetCode during my PS-1 and revising OOPS and DBMS concepts.

**What were some critical topics/skills essential for the process?**
- DSA - Graphs, Trees, BST, Recursion, Dynamic Programming
- OOP - Interfaces, Abstract Classes, Inheritance, Abstraction/Encapsulation etc.
- DBS - Normalization, ACID Properties.

**What kind of projects did you work on that were helpful to your selection?**

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I had worked on a project related to Deep learning in my PS-1 at CEERI Pilani. Other than that I had also worked on an Android development project with Students' Union Technical Team. Lastly, I had made a cab booking application in Java Swing during my OOPS coursework.

**Sources to help in preparations:**
- InterviewBit, Codeforces, LeetCode, GeeksForGeeks
- Revise your OOPS and DBMS concepts from notes/slides

**Your suggestions to someone preparing to appear in this company?**
Go through the company's (not only Microsoft) previous interview questions available on platforms like GeeksForGeeks a day or two before the online round. This will definitely help you in their rounds.

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**Name**: Ananay Gupta

**Recruitment Procedure**
Selection Criteria was completely based on sound knowledge of problem-solving skills, coding skill and how well you communicate
All the rounds were knockout.
- 1 coding round followed by 3 knockout Interviews (all technical for me, for some students there were 2 technical and 1 HR)
- In the coding round, 3 ques were asked. One was related to Greedy, other related to Strings and the 3rd one related to DP. (sorry don't remember the exact questions)
- In the 1st interview, questions related to Greedy and Sorting were asked.
- In the 2nd interview, a Linked List related question and a basic DP question was asked.
- In the 3rd interview, I was asked to implement a sudoku solver, probably because I wrote in my Resume that I like solving sudoku.

**Important CDCs and Elective Courses:**
DSA, OOPS, DBMS

**When did you start seriously preparing? How did you go about it?**
I started competitive coding from the starting of 2nd year, mostly on codeforces. Quite regularly, I used to give contests and was pretty good in CC before the start of Internship season. Then in August, I also started to practice from Leetcode. Leetcode is pretty good, sometimes ques directly come from there only.
For OOPS and DBMS, whatever is taught in the course of 2nd year is quite sufficient. Just revised my OOPS and DBMS notes in 3-4 days in August.

**What were some critical topics/skills essential for the process?**
DSA is the most important skill required for coding rounds and interviews.
Ques from OOPS and DBMS are also asked but they are pretty straight forward so no need to spend a lot of time on them.
In fact in all my 3 interviews, questions related to only DSA were asked. No ques was asked from OOPS or DBMS.

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**What kind of projects did you work on that were helpful to your selection?**
Cab-booking app : This project was basically part of my OOPS course.
Recruitment Engine : Made recruitment engine while working as Intern at Wipro Ltd in PS-1. This could rank the people who have applied for the job based on their qualifications and skills. Thus it could help the HR team to quickly recognize the applicants most suitable for a particular job profile.

**Sources to help in preparations:**
- Codeforces
- Leetcode
- geeks for geeks
- Class notes and lecture recordings of Gururaj Sir for OOPS and DBMS

**Your suggestions to someone preparing to appear in this company?**
Nothing is more important than DSA. If you have not started competitive coding, then start now. Leetcode is a very good site to practice from. No need to go to its hard level ques. Easy and medium level ques are quite sufficient to crack the interviews.
Once you are confident enough, you start giving contests from codeforces also.

Be very sure about what you write in your resume. Write at least 2-3 projects on your resume. Of course you can exaggerate while writing stuff in Resume. But be sure about the finest details of all your projects that you have mentioned in Resume.
Be confident while answering, if you don't know the exact or most optimal solution to a problem, no worries. Speak up what you know. Never sit dumb in an interview. Keep talking to the interviewer. They are always willing to give some hints or even change the question.

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**Name:** Sristi Sharma

**Recruitment Procedure**
Codess test, 2 interview rounds
DSA based questions were asked in round 1 and second round

**Important CDCs and Elective Courses:**
- DSA
- OOPS
- DBMS

**When did you start seriously preparing? How did you go about it?**
I prepared throughout summer practiced on codeforces and also from leetcode amd InterviewBit

**What were some critical topics/skills essential for the process?**
Strong hold on DSA is a must.

**What kind of projects did you work on that were helpful to your selection?**
Software development projects .

**Sources to help in preparations:**
Geeksforgeeks, hackerrank , InterviewBit

**Your suggestions to someone preparing to appear in this company?**
Linked lists are their favorites

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**Name:** Ashi Sinha

**Recruitment Procedure**
I went through Engage program in summer 2020.So there was one online round for Engage program selection.Then they gave us a project to complete,after which there were 2 rounds of interview
- In the online round,questions based on basics of Data structure and algorithms were asked
- In interviews coding implementation questions were asked.In Managerial round,they asked about projects.

**Important CDCs and Elective Courses:**
DSA, OOP, Operating Systems, DBMS,Basic debugging skills

**When did you start seriously preparing? How did you go about it?**
Since Engage program exam happened midway for 3-2, I was doing DSA assignments sincerely in that semester and also in the 15 day winter break before that ,I had started reading concepts from Geeks for geeks.In the summer break that followed, I did the mentorship project they gave sincerely and side-by-side kept looking at interview-bit .

**What were some critical topics/skills essential for the process?**
You should be very clear about your Resume, know every small bit of it. You should be able to think of multiple approaches for a problem and be able to choose the best solution and give reason for it. In an HR interview, be confident and read about the company and its projects.

**What kind of projects did you work on that were helpful to your selection?**
My main project was the mentorship project I did which was making a Tic tac toe game with many features like hints etc.In the Managerial round,they asked me to explain my project ib half of the time apart from coding implementation.Apart from that ,I did some data-science projects as a part of course-curriculum

**Sources to help in preparations:**
1. Geekforgeeks

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2. Interview bit
3. Leetcode

**Your suggestions to someone preparing to appear in this company?**

Be clear with all the basics of programming which is foremost, then practise questions based on them.Do your coursework sincerely like I solved and revised all my DSA assignments which was of great help.

**Name:** Aditya Agarwal

**Recruitment Procedure**
Performance in online coding test and 3 interviews.
1 online test. 3 interviews. No HR round.

Online coding -
> DSA. There were 2 questions, different for everyone. I had 1 simple logic based problem and 1 2D DP problem. Quite a few students solved both. Possibly, CGPA and time taken might have been a criteria to shortlist.

- Further rounds were online interviews and you had to code on your local machine so keep your compiler ready.

Interview 1

- DSA (easy-moderate): Started with a basic stack based parenthesis balancing question and the interviewer kept on modifying the same problem. Ultimately converted the problem to a backtracking problem to print all correct balanced parenthesis combinations. Time and space complexity analysis was also expected.

Interview 2

- DSA (moderate-tough): The question was framed (pretty badly) like a real life problem so I took time to understand it and asked the interviewer to explain it multiple times. It was on the lines of designing a way to store hierarchy inside an organization in order to retrieve the number and names of people under any person. The first approach I suggested was using a tree and I had to code the entire tree structure from scratch. The second approach I suggested was topological sort based. This round was the longest for me and lasted >1.5 hrs. I made sure that he was satisfied with my answer. Time and space complexity analysis was also expected.

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Interview 3

- DSA+Projects+OOP (moderate): This was with a more experienced interviewer. He discussed a project from an internship related to software dev. Then he asked some OOP concepts. Finally, he gave a DSA/OS question based on sorting of files that cannot be loaded simultaneously onto RAM (can be found on GFG). Time and space complexity analysis was also expected.

**Important CDCs and Elective Courses:**
DSA, OOP, OS, DBMS

**When did you start seriously preparing? How did you go about it?**
4 months before SI.
I did DSA rigorously on Leetcode and GFG. Practiced a little on Interviewbit too in the end. OOP and DBMS from Gururaj sir's classes is mostly enough but GFG also has good resources and questions for these topics. Must read interview experiences on GFG before any interview.

**What were some critical topics/skills essential for the process?**
DSA, OOP, OS, DBMS, Confidence, Basic logic and English fluency.

**What kind of projects did you work on that were helpful to your selection?**
Software development project (GCP and node backend) during summer intern. I was questioned on some aspects of this project. Make sure you mention only what you know instead of describing the whole project in your resume.
PS-1 project may come in handy too.
Course projects are not always great but you can advertise them however you want if you know the frameworks and technologies involved.

**Sources to help in preparations:**
Must do coding questions on GFG. Practice more questions on Leetcode and Interviewbit. Do not leave any DSA topic untouched. Read company specific interview experience on GFG or talk to seniors.

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**Your suggestions to someone preparing to appear in this company?**
Firstly, if you have practiced DSA, you are pretty much good to go.
Secondly, be confident and greet the interviewer, try to do small talk about why you like software development and general CS stuff (only if he/she is keen on talking to you).
At the end of the interview always ask some questions to the interviewer like how long have you been at/ what do you like about/ what is your role at/ the company.

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**Company Name: Namekart**

**Eligibility:B.E All**

**CGPA Cut-off:0**

**Roles: Product Management Intern**

**Selects: 1**

**Stipend: 20,000 per month**

**Selection Rounds: 5**

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**Name:** Snigdha Khare

**Recruitment Procedure**
- The rounds were as follows-Resume shortlist, GD, HR interview, Personal Interview with CEO, Task
- The questions asked were very simple and were mainly oriented in testing confidence and past learnings. The interviewer majorly wanted to know the thinking process and problem solving skill. The task given in the last round: Design a news-feed page of a news app majorly targeting the millennial generation (draw inspiration from inShorts and Snapchat).

**What were some critical topics/skills essential for the process?**
Critical skills: Problem solving, Communication skills

**Your suggestions to someone preparing to appear in this company?**
Read about what they do and try to understand the same. Go through current affairs and some basics of Product Management.

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**Company Name: NoBroker**

**Roles:** Data Science Intern

**Selects: 1**

**Stipend: 35,000**

**Selection Rounds: 4**

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**Name:** Thakur Shivank Singh

**Recruitment Procedure:**

There were 4 rounds in total for the Data Science Role
.
Resume Shortlisting
- Coding Assessment Test: This round was subdivided into 2 parts. Both were related to Data Analysis and Visualization.

Theory and Conceptual questions
- Coding questions (using Python/R)
- Technical Interview: A lot of questions were based on case studies and applications of Data Science and Machine Learning in real-world scenarios. For example, Classification and Cluster Analysis for customer segmentation, alerts and predictions based on historical data, Data Cleaning and Text Analysis, Performance Metrics, etc.
- Technical + HR Interview: It was similar to the previous round and focused more on the topics I was going to deal with later on. There were a few behavioral questions mixed in as well.

**Important CDCs and Electives:**
Data Mining, Information Retrieval, ML, DSA, DBMS

**When did you seriously start preparing? How did you go about it?**
I started in the second week of August. I had an amazing experience at my PS1 station as part of an ML project. I was new to the field, so it took most of my time during PS1.

**What are some critical topics/skills essential for the process?**
- Data Mining and Information Retrieval (application of ML in various real-world scenarios)
- Machine Learning, Probability and Statistics (basic foundations)
- Human Computer Interaction (to understand performance and user retention metrics)
- Thorough knowledge of projects listed in the resume.

**What kind of projects did you work on that were helpful to your selection?**
- Data Mining and Information Retrieval projects where I learned most of the ML

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concepts and applications along with coding practices.
- Machine Learning projects
- PS1 project related to NLP

**Sources to help in preparation:**
- Kaggle
- GeeksForGeeks
-  Leetcode/InterviewBit

**Your suggestions to someone appearing for this company?**
A company in the startup phase usually looks for skills and projects specific to the role. Make sure you are thorough with the projects and list relevant projects in the resume.

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# ORACLE

**Company Name: Oracle**

**Eligibility: B.E. CS, ECE, EEE, ENI**

**CGPA Cut-off: 7**

**Roles: Member of Technical Staff**

**Selects: 17**

**Stipend: 50,000 per month**

**Selection Rounds: 3**

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**Name:** Karan Kaul

**Recruitment Procedure**
- The 1st round was an Online test that was held on their platform. It was an MCQ test for 107 minutes. It had 4 sections- English,CS core,DSA,Software Engineering each having its own time limit. The Programming Language used was Java. No Negative marking(iirc). The questions were based on OS,DBMS,trees,Java OOP.

- 2nd round- It was a Zoom Call Interview. It was a coding round. He asked me some basic questions from my resume- like what my preferred language was, how I started programming etc etc. The interviewer then asked me to join an Online IDE(ig Coderpad) where he asked me multiple C/C++ based questions. All of the questions were based on Basics/Fundamentals of the language.

- 3rd round- It was an HR+Technical Round. The interviewer welcomed me and instead of jumping right onto questions, he started off by learning about my programming journey. He was not very interested in the programming aspects rather he wanted to judge how good I was at thinking out of the box. As my resume was more on Android development, he began by asking me how I would scale my app to a website; like how would the UI change, what parameters I needed to keep in mind for the scale up and others. More questions on development were asked. He ended the interview by asking a Riddle(google Bee-Train interview puzzle). I couldn't get it right in my first 2 attempts but somehow I answered it in my third attempt.

**Important CDCs and Elective Courses:**
OOP

**When did you start seriously preparing? How did you go about it?**
My prep began in mid-July or starting August. We had received a University Coursera subscription because of the Pandemic. I completed the Algo course by San Francisco Diego University. My primary sources were GFG and Youtube. GFG is literally the best

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website you can use to gather Coding related knowledge; they have everything and anything! Youtube as always is a lifesaver. I remember learning DSA from Abdul Bari( he has a Udemy course as well ), OOP from Telusko. I didn't really prepare for OS/DBMS, however I remember reading GFG crash course articles and just going through MCQs posted on the internet.
What were some critical topics/skills essential for the process?
Patience, Cool-headedness, Self-Belief and of course the clarity of Basics of the mentioned courses

**What kind of projects did you work on that were helpful to your selection?**
I had a OOP Android project(used JAVA :) for programming) and another freelance application that is hoisted on the Google play store

**Sources to help in preparations:**
- Leetcode
- Gfg
- Codeforces
- youtube

**Your suggestions to someone preparing to appear in this company?**
- The interviewers are rather cold like even after I answered correctly, their expressions made me doubt myself. It is an old interview trick but trust it WORKS! So try to remain as Cool and Confident as possible. Don't fumble, be honest.
- DON'T WRITE EVERYTHING IN YOUR RESUME- if you aren't sure about the thing, DON'T mention it in the resume because they will touch mostly every thing mentioned.
- Don't be rude, try to engage with the interviewer- ask him questions after the interview. Always walk them through the code when you are writing it so that they know your train of thought. Last of all, if you don't know the answer to a question, just acknowledge the fact that you don't know it and then give your closest assumption

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**Name:** Dheeraj Gupta S D

**Recruitment Procedure**
1 online test and 2 rounds of interviews.
- Online test: Covered a wide array of questions like aptitude topics, CS concepts like DSA.
- Round1-Technical : Started with a brief introduction about self and resume projects. Followed by a basic coding question of finding loops in a linked list. Then another graph question that required BFS. Had to write pseudo code on an editor for these questions.Then a String question was asked.. We need to find the maximum length of a palindrome string that can be formed with a given input string. Gave a straightforward explanation how this can be done. No pseudo code was asked. And at last an SQL query was asked which i wasn't able to answer.
- Round2-HR: Started the round with a DB question: how to resolve many-to-many relationships in a DB. Followed by some puzzles. Oracle is known to ask puzzles in the interviews. Then followed by asking some standard HR questions like any plans on Higher education etc.

**Important CDCs and Elective Courses:**
- DSA
- OOPS
- DBMS and Discrete Structures

**When did you start seriously preparing? How did you go about it?**
Serious preparation started 2 months prior to the start of Internship drive as I am not good at CC. Solved leetcode questions daily. Leetcode's monthly challenges were really helpful to practice daily. Gave some contests to get a hang of time constraints.

**What were some critical topics/skills essential for the process?**
Quick and Errorless problem solving skills for the online round. Although it was MCQ's,there were so many questions in the online round, so u need to be quick in solving them.Knowledge of CS concepts is a must. Proper interview skills are also important.

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**What kind of projects did you work on that were helpful to your selection?**
Not much. Most of my projects were from the assignments in CS subjects. There were 2 DBMS projects and an OOP project along with my PS1 on my resume. I wasn't asked much about my projects in the interview.

**Sources to help in preparations:**
I solely depended on LeetCode and GeeksForGeeks. But other sources like CodeForces, InterviewBit are also helpful.

**Your suggestions to someone preparing to appear in this company?**
Stay confident throughout the interview. It's okay if you weren't able to solve some questions, you can still do well. Stay active, keep telling him your ideas about a problem when asked one instead of silently solving for it. Refer to past experiences, get an idea of what's being asked, prepare for them. Puzzles that are asked in my HR round were direct from the internet. If you're not confident in giving interviews, give some mock interviews to your friends. All the best.

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**Name:** Sai Venkat Gowtham Golla

**Recruitment Procedure**

4 rounds(including online test)

- 1st round: Online test( Objective type - CS fundamentals and data structures related questions )
- 2nd round(Technical Interview): A brief introduction followed by a few questions based on resumes followed by a few basic OOP concepts. Then I was given two DSA questions to solve.
- 3rd round(Technical Interview): I was asked to explain my PS project briefly, and then I was given a Java code and was asked to give the output. Next, a question on solving sudoku with some modifications.
- 4th round(Technical Interview): Introduction followed by few questions on DBMS followed by few puzzles and finally 2-3 general HR questions.

**Important CDCs and Elective Courses:**

OOP , DBMS , DSA

**When did you start seriously preparing? How did you go about it?**

Got familiar with C++ by the end of 2-2 and started solving problems from the Interview bit in the second half of my PS but I would suggest starting as early as possible.

**What were some critical topics/skills essential for the process?**

- CS fundamentals
- DSA

**What kind of projects did you work on that were helpful to your selection?**

PS1 project and OOP mini project

**Sources to help in preparations:**

Interview bit

Gate smashers/Knowledge Gate youtube channels for revising DBMS concepts

Lecture slides for OOP and DBMS

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**Name:** Arpan Sarangi

**Recruitment Procedure**
One online round and two technical interview rounds (some people had three interview rounds).

- The online round had only MCQs. There were sections like Aptitude, CS theory, English.
- Both my interview rounds were very short (around 25 minutes each). In the first round, they were two problems - one was to print some stars in some fashion (like they ask in the initial lab tests of CS F111) and the other was a problem related to palindromes (I can't remember the problem, it was around the difficulty of a LeetCode medium task).
- In the second round, he asked me to explain the projects on my resume. I was also asked questions on normal forms, some SQL queries, a simple coding problem and to explain the priority queue data structure.

Some of the other students were asked tougher coding problems, some were even asked puzzles.

**Important CDCs and Elective Courses:**
DSA, DBS mainly. The online test had questions on pretty much every subject.

**When did you start seriously preparing? How did you go about it?**
After not being able to clear the online rounds of the first few companies. I strongly advise you to utilise the summer properly.
I did topic wise problems on InterviewBit and gave mock interviews on LeetCode. Also went through OOPS and DBS notes. I did not have time to give contests on CodeForces and other platforms. I used to give contests earlier though, I think it helped, though not in this company**.**

**What were some critical topics/skills essential for the process?**
Problem solving - be it coding problems or aptitude based (for the online rounds, the online required speed as well). I think having a good understanding of OOPS and DBS concepts should also help (I was not asked any question from OOPS but some students were).

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**What kind of projects did you work on that were helpful to your selection?**
I guess my course projects in OOP and DBS helped. Maybe my PS1 project also did.

**Your suggestions to someone preparing to appear in this company?**
DSA-wise it should not be tough. Practise SQL queries and review other DBS and OOPS topics. Be confident with the projects on your resume. All the best!

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**Name:** V Abhijeet

**Recruitment Procedure**

1 online test, 2 interview rounds

- The online test is a mix of theory (OOPs, aptitude, SQL etc), and programming questions (finding output, finding error). There were no DSA programming questions (i.e where you are given a question and you have to program a solution). If I remember correctly, Java was the language of choice in the test (i.e the code they gave were in Java)
- The 1st interview round mainly asked simple OOPs questions like the diamond problem, and the pillars of OOPs. There were also two DSA questions where you had to write code on a collaborative notepad (think Google Docs but cleaner UI and syntax highlighting but no autocomplete). You can use any language, and I used C++. The questions were simple if you've done decent practice. Though, the questions depend upon your interviewer. There was also one reasoning question: Cutting a cake into 8 pieces using only 3 cuts. I was also asked about the (PS-1) project I had listed. That entire section in my resume was a scam. But I had done a similar project on my own time and hand prepared my response the day before the interview.
- The 2nd interview asked basic SQL at first. The interviewer then moved onto my resume and asked me questions from the stuff I had listed. For example, I had taken Network Prog and the interviewer asked me about diff between TCP and UDP, use cases of the protocols etc.I had also listed technologies like Docker and the interviewer asked me basic questions about them.

**Important CDCs and Elective Courses:**

OOPs and DBMS will be useful for the interviews. For the tests,

**When did you start seriously preparing? How did you go about it?**

Serious preparations started one week before 3-1 began (the first week of August). Your only focus (unless you are already extremely good) is to grind Leetcode or InterviewBit and improve your DSA and programming skills. Your projects or the number of languages and frameworks you know will not matter unless you can clear that first round.

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My DSA problem solving skills are pretty poor and I got into Oracle simply because they didn't have a programming DSA (also called CC) round.

**What were some critical topics/skills essential for the process?**
Obviously DSA. You got to Clear the interview first. Once you are confident with your DSA skills, start studying topics in OOPs (basic concepts like classes, the 4 pillars, use cases etc) followed by DBMS (normalization, ACID) +SQL. CS students would study all this as part of course work. If you are Phoenix, make sure you study this.

**What kind of projects did you work on that were helpful to your selection?**
I doubt the projects I did helped me with my selection. If you are reading this and haven't done DSA yet, do DSA. Don't bother about projects until you are confident about clearing the coding rounds.

**Sources to help in preparations:**
For DSA:
Interviewbit videos + Leetcode + Competitive Programmers Handbook + cses.fi
you can also find videos by other people on YouTube as well as articles on GFG and other websites explaining certain topics.

For Interviews:
Any website that explains OOPs and DBMS concepts. You could also try the textbook used by CS students.

**Your suggestions to someone preparing to appear in this company?**
For any company, make sure you do DSA very, very well.
For Oracle in specific, make sure your theory for the various topics listed earlier are on point (since Oracle doesn't have a DSA round).

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**Name:** Divyanshu Agrawal

**Recruitment Procedure**
One online round, followed by 2-3 interview rounds ( technical )
- In the online test, there were mathematical-reasoning questions, questions based on understanding code and finding bugs ( but not writing code ), and English-language questions. A lot of questions were asked so speed was important.
- In the interviews, OOPs, DBMS questions, and some puzzles were asked.

There was no HR round as such.

**Important CDCs and Elective Courses:**
- OOPS
- DBMS
- DSA

**When did you start seriously preparing? How did you go about it?**
I started after August. I mostly prepared from InterviewBit and GeeksForGeeks, and solved questions topic-wise.

**What were some critical topics/skills essential for the process?**
Strong understanding of OOPs, DBMS and solving puzzles was needed.

**What kind of projects did you work on that were helpful to your selection?**
As I participated in Google Summer of Code, that was helpful for me in my introduction. They didn't ask much about other projects.

**Sources to help in preparations:**
- InterviewBit
- GeeksForGeeks

**Your suggestions to someone preparing to appear in this company?**
DSA is not necessary for Oracle. Focus more on OOPs, DBMS and solving puzzles.

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**Name:** Amogh Saxena

**Recruitment Procedure**
Selection Criteria was completely based on sound knowledge of problem-solving skills, coding skill, and how well you communicate
There was an online test followed by two technical interviews.
- Round1: It comprised different sections, of which one was Quantitative Analysis, and others were technical sections containing computer engineering MCQs.
- Round 2: It was the 1st technical interview round. Which had fundamental questions on DSA, OOP, DBMS. The interviewer also discussed my PS project in this round. One basic coding question was also asked to be implemented by me.
- Round 3: It was a DSA based coding round. There were two questions, one based on graphs, and the other one was based upon DP.

**Important CDCs and Elective Courses:**
DSA, DBMS , OOP

**When did you start seriously preparing? How did you go about it?**
Around June. I used InterviewBit, LeetCode for preparation. I prepared topic wise and used to solve questions from these sites. Before the interview, I revised OOP and DBMS.

**What were some critical topics/skills essential for the process?**
- Graph Algorithms
- Dynamic Programming
- Clear understanding of OOPS and DBMS concepts

**What kind of projects did you work on that were helpful to your selection?**
I didn't do any major projects. All the projects in my resume were course projects of OOPS, DBMS and Cryptography (Elective).

**Sources to help in preparations:**
- InterviewBit
- Leetcode
- GeeksforGeeks Archives

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**Your suggestions to someone preparing to appear in this company?**
This company, apart from DSA, also focuses a lot on other subjects like OOP and DBMS, so one should also have good knowledge about these subjects.

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**Name:** Deepak George

**Recruitment Procedure**
Successfully solving the coding questions, SQL queries and puzzles and clearly communicating the thought process.
- In the first round, I was asked to write some SQL queries and a simple program (printing alternate prime numbers), and discussing the complexity. I was also asked a puzzle question.
- In the second round, I was asked to code for two problems which were related to hashing/sorting and discuss my approach as well as the complexity of my solutions. A third question (DP based on tries) was asked for which I only needed to explain the idea.

**Important CDCs and Elective Courses:**
DSA, DBMS, OOPS

**What were some critical topics/skills essential for the process?**
Basic concepts like hashing/sorting and SQL

**Sources to help in preparations:**
InterviewBit, GeeksForGeeks

**Your suggestions to someone preparing to appear in this company?**
Be very confident with your fundamentals/basics

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**Name:** Kumar Pranjal

**Recruitment Procedure**
There were multiple criteria.
- The first one was an online test and then there were two rounds of technical interviews in which we had to showcase our knowledge. In the online test round, there were MCQs based on Java and MySQL.
- In the first round of interview, I was asked questions from DSA like sorting and hashing. In the second round, I was asked questions from Java and MySQL. I was also asked to brief about my projects.

**Important CDCs and Elective Courses:**
DSA, OOP, DBMS. I was asked questions mainly from DBMS.

**When did you start seriously preparing? How did you go about it?**
I used to do CC in my first year. But I started preparing for internship from 3-1, that is one month before the start of internship drive. I read algorithms from GFG which helped me boost my confidence.

**What were some critical topics/skills essential for the process?**
DSA, OOP and DBMS all are essential, but Oracle prefers those who are good in DBMS and OOP (in Java).

**What kind of projects did you work on that were helpful to your selection?**
I did several projects based on Java Swing, JavaFX and MySQL and I explained them well to my interviewer. That increased my chances of selection.

**Sources to help in preparations:**
GFG, InterviewBit

**Your suggestions to someone preparing to appear in this company?**
Keep at least one project based on Java and MySQL on your resume. It will surely help you during the selection process.

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**Name:** Rohan Daniel

**Recruitment Procedure**
1 online test. Shortlisted candidates were interviewed.
DSA, SQL and system design questions

**Important CDCs and Elective Courses:**
- DSA
- DBMS
- OOPS

**What were some critical topics/skills essential for the process?**
Conversation, DSA, OOPS

**What kind of projects did you work on that were helpful to your selection?**
Course Project: Software Engineering project
Personal Project: Torrent client

**Sources to help in preparations:**
Engineering project client

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**Name :** Harshvardhan Jha

**Recruitment Procedure**
- Online Test along with 2 rounds of Interview
- Online test(MCQ questions on English, Mental ability and Coding)
- Interview round 1 consisted of programming problem to be run while the invigilator is online
- Interview round 2 consisted of algorithmic challenges

**Important CDCs and Elective Courses:**
DSA, OOP, DBMS, Software Engineering

**When did you start seriously preparing? How did you go about it?**
1 month before. I started with InterviewBit and then did a bit of Leetcode also.

**What were some critical topics/skills essential for the process?**
Dynamic Programming

**What kind of projects did you work on that were helpful to your selection?**
SE course project and some personal projects

**Sources to help in preparations:**
InterviewBit and Leetcode

**Your suggestions to someone preparing to appear in this company?**
Need to be good with puzzle solving. Might not get conventional DSA questions. Can be asked tricky puzzles.

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**Name :** Varun Narayanan

**Recruitment Procedure**

- The first round consisted of an MCQ based selection round with questions asked from a variety of topics including Data Structures and Algorithms, Database Systems, Object Oriented Programming, General Math related questions and an English Section.
- The second round consisted of a technical interviews round where the main topics of discussions were on my projects done(as per my resume) and technica questions on java, python and database systems.
- The third round was basically a detailed discussion on my project done during Practice School 1.

**Important CDCs and Elective Courses:**
Data structures and algorithms, Object Oriented Programming, Database Systems.

**When did you start seriously preparing? How did you go about it?**
I started preparing seriously a couple of months before Oracle hosted their interview processes. I used to mainly practise competitive coding questions on codeforces and used to focus in my weak areas such as Dynamic Programming and Graphs.

**What were some critical topics/skills essential for the process?**
Some critical skills which were required were a strong foundation in Data Structures and Algorithms, Object Oriented Programming and Database Systems and the ability to converse well with the interviewer and most of all confidence during the interview rounds.

**What kind of projects did you work on that were helpful to your selection?**
Machine Learning, Object Oriented Programming and Database related projects were helpful for my selection.

**Sources to help in preparations:**
Interview but, Leetcode, GeeksforGeeks and Codeforces

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**Your suggestions to someone preparing to appear in this company?**
● Be strong with your foundations in Java, object oriented Programming and Database Systems as this is the main kind of work the company focuses on and can expect questions for the same.
● Do not panic during your interview and display a sense of confidence to your interviewer.
● If you don't know the answer to a particular question say you don't know rather than trying to make up some answer for the same.

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**Name :** Akshat Rastogi

**Recruitment Procedure**
- In the first round they asked a basic recursion question. It could be solved with both recursion and DP. I discussed both the approaches with the interviewer and then wrote a working code. Next he asked me two puzzles. (https://practice.geeksforgeeks.org/problems/the-3-5-litre-die-hard-water-puzzle) and a modified version of (https://www.geeksforgeeks.org/puzzle-20-5-pirates-and-100-gold-coins/.)
- He then discussed some topics from Discrete Mathematics as I had mentioned it in my resume. Next he asked me to explain Stack and Queue to a second grade kid. The round was concluded discussing how a stack is implemented using queues(just discussion, didn't write any code).
- The second round was a mix of technical + HR interviews. "Tell me something about yourself" was the first question asked. Next he asked me about my PS project and the website we made. Then he asked me a DSA question to remove duplicates from an unsorted array. (https://webrewrite.com/remove-duplicate-unsorted-array/.)
- I discussed my approach using STL and wrote the working code. Then he asked what if STL is not there. I gave him an alternative approach but $O(n^3)$. Next he asked me to explain Polymorphism. This round concluded by him asking me if I had any questions for him.

**Important CDCs and Elective Courses:**
I am a EEE student, so there weren't any direct EEE CDCs that helped
me in the test or the interviews. I did Discrete Maths in my 2-2 and a few questions were asked from there.

**When did you start seriously preparing? How did you go about it?**
I started preparing seriously for SI just after PS-1. I started learning DSA after PS-1 and practiced more and more questions as I progressed. Practicing is a must. I also went through basic concepts of OOP. I used GeeksForGeeks for practicing and Abdul Bari's course on Udemy for learning DSA.

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**What were some critical topics/skills essential for the process?**
DSA is the most important topic for all the companies. Also, do have in-depth knowledge of projects you have mentioned in your resume.

**What kind of projects did you work on that were helpful to your selection?**
I made a website during my PS-1 and the company where I worked replaced their previous website with that website so I was easily able to showcase the work I had done. Being a EEE student, that was the only project I had.

**Sources to help in preparations:**
1. https://www.geeksforgeeks.org/
2. https://practice.geeksforgeeks.org/
3. https://www.udemy.com/course/datastructurescncpp/

**Your suggestions to someone preparing to appear in this company?**
Be thorough with the basic concepts of DSA, OOP fundamentals and practice some puzzles.

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**Name:** Abhinav Sukumar Rao

**Recruitment Procedure-**
First-round was an MCQ round, followed by two interview rounds in the server-tech role.
First-round was more coding-oriented, where they asked a straightforward question
(think CF 1100-1200 level).

**Important CDCs and Elective Courses-**
- OOPS
- DBMS
- Mpi
- SE

**When did you start seriously preparing? How did you go about it?**
- I started in April, I did not like the idea of CC or Leetcode grinding, and that
  showed in my previous internship coding rounds.
- I still practiced problems on Codeforces and other sites like LeetCode and
  InterviewBit. I gave a few CF contests and then quit that medium entirely.
- I was focused on LeetCode and company interview/coding round questions
  before giving the company tests. I have also noticed repeats of Div2/3 C-D level
  problems in some of the tests, **and *many leetcode problems have also been
  repeated*.**

**What were some critical topics/skills essential for the process?**
- Basic DBMS
- DSA.
- Be skilled with OOPS.

**What kind of projects did you work on that were helpful to your selection?**
SE Project

**Sources to help in preparations:**
- Leetcode,
- Codeforces

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- GFG

**Your suggestions to someone preparing to appear in this company?**
Not much DSA is required, but DBMS, and software engineering skills are a must since Oracle is primarily a DB company.

**Company Name: RBL Bank**

**Eligibility: B.E. CS, ECE, EEE, ENI**

**CGPA Cut-off: 0**

**Roles: Banking Technology Intern**

**Selects: 3**

**Stipend: 20,000 per month**

**Selection Rounds: 2**

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**Name:** Vemparala Laxmi Manuha

**Recruitment Procedure:**

Round 1: Technical interview
● Included questions about which language I code in, the coding competitions I have appeared for and a brief discussion and questioning on the projects I have done.

Round 2: HR interview
● Basic HR questions like tell me about yourself, your strengths and weaknesses were asked. I was also asked to briefly explain about my projects once again a discussion on those projects followed.

**Important CDCs and Electives:**
● Data Structures and Algorithms
● Object Oriented Programming

**When did you seriously start preparing? How did you go about it?**
I started preparing seriously a month after the SI drive began although I would suggest preparing much earlier than that. I took up DSA as an elective and strengthened my basics and solved a lot of problems on leetcode and InterviewBit

**What were some critical topics/skills essential for the process?**
Coding skills were a must
Decent skills in solving mathematical and analytical problems
Excellent communication skills

**What kind of projects did you work on that was helpful to your selection?**
I have worked on a web development project that helped me drive my conversation with the interviewer in the technical interview round.

**Sources to help in preparation:**
Geeksforgeeks
InterviewBit
Leetcode
Videos on youtube by mycodeschool

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**Your suggestions to someone preparing to appear in this company?**
Be confident and try explaining your thought process as you try to answer your interviewer's questions. Always ask the interviewer questions about work and culture of the company when they ask you if you have any questions for them as it shows that you have interest in working with them. Expect basic DSA questions and prepare well.

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**Company Name: Reputation.com**

**Eligibility: B.E CS**

**CGPA: 0**

**Roles: Software Engineer Intern**

**Selects: 7**

**Stipend: 50,000 per month**

**Selection Rounds: 2**

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**Name:** Rishab Nahar

**Recruitment Procedure:**

Technical Interview:
- It was a virtual interview which started out by, interviewer asking me a simple DSA problem. He was interested in knowing best and worst case time complexity for the question and asked me to write pseudo code regarding the same in my preferred language.
- This was followed by questions related from OOPS, DBMS concepts. Problems related to Inheritance, Polymorphism, ER-Modelling, SQL Queries, DBMS Anomalies were asked. One has to be quite clear about all the fundamentals related to the above topics as the interviewer was asking cross-questions to any of the answers which I gave.
- He then focused on my resume and asked some simple questions related to the projects listed.

**Important CDCs and Electives**
- Data Structures and Algorithms
- Database Management System
- Object Oriented Programming
- C Programming

**When did you seriously start preparing? How did you go about it?**
I started my preparation during my PS-1 (approximately 4th week of may). I used to solve 5-6 topic wise DSA problems daily on platforms like Leet-Code, Interview-bit.

**What are some critical topics/skills essential for the process?**
- DSA
- OOPS :- Interfaces, Abstract Classes, Inheritance, Abstraction/Encapsulation
- DBMS :- ER Modelling, SQL Queries
- Coding fundamentals

**What kind of projects did you work on that were helpful to your selection?**
During the resume shortlisting rounds only those students were shortlisted who has some good projects related to Data Science roles.

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**Sources to help in preparation:**
- LeetCode
- Interview-Bit
- GFG for DSA preparation.
- Lecture Notes, Lecture Slides, GFG important interview questions for OOPS, DBMS.

**Your suggestions to someone appearing for this company?**
Just be clear with your fundamental courses of CS and don't try to cram anything. Also you should be crystal clear about each and everything you write in your resume. My interviewer even asked me some questions related to Sanskrit as I wrote it in my resume under the "languages known" section.

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**Name:** Abhirath Singh

**Recruitment Procedure:**
DSA, OOP, DBMS. Also questions related to resume. The questions were very standard like for DSA, the interviewer asked me to code merge sort algo. Overall easy and only round.

**Important CDCs and Electives:**
- OOP
- DBMS
- DSA

**When did you seriously start preparing? How did you go about it?**
After the end of the 5th semester (mostly leetcode), although you should start preparing while doing PS1 or even before.

**What are some critical topics/skills essential for the process?**
You should be in touch with problem solving which is very helpful in every round of any company. Also the concepts of OOP are interview favorite questions.

**What kind of projects did you work on that were helpful to your selection?**
I did a project under Dr. Panda, and a PS1 project. The recruiters are not very much interested in the projects you have done. They will just ask you to go over what work you have done and that's it.

**Sources to help in preparation:**
leetcode, gfg archives.

**Your suggestions to someone appearing for this company?**
CGPA was the only factor for shortlisting, other than that the only round is really easy to crack. Almost everyone who gave the interview were selected.

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**Name:** Vatsal Gupta

**Recruitment Procedure:**
Resume Shortlisting
- Out of all the applicants, 10 students were selected for the interview round. Primary criterion might have been cgpa, then the project work. Since the role was an SDE role, specific projects might have impacted individual selection.

Interview
- It was a virtual Interview with screen sharing, it started off with the discussion about the projects on my resume and the other ongoing projects in the current semester.
- The interviewer asked in depth questions on course projects and my PS1 project. He then asked conceptual questions on SE, System Design, Networking, DBMS, etc. But most of them were based on the concept implemented in the project work.
- The interviewer asked me to then code a DSA problem based on sorting and heap.
- Since my resume involved ML projects, detailed questions were asked about them.

**Important CDCs and Electives:**
- DSA
- DBMS
- OOPS
- SE
- ML

**When did you seriously start preparing? How did you go about it?**
Started my preparation along with my PS1, around June. Mostly solved InterviewBit for DSA based problems.For OOPS and DBMS - lecture slides.

**What are some critical topics/skills essential for the process?**
DSA and a strong hold on your project work.

**What kind of projects did you work on that were helpful to your selection?**
- Course Projects on SE, OOPS
- PS1 Project

**Sources to help in preparation:**
- InterviewBit
- GeekForGeeks

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**Your suggestions to someone appearing for this company?**
Know your projects and how you are implementing and going about it, pay attention to concepts taught in various courses and how they are used in your project work.

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**Name:** Rishabh Baid

**Recruitment Procedure:**
I was asked around 30-35 theoretical questions focusing on OOP, DBMS, OS, DSA. The questions were not very difficult but tested the basics of the each subject. Basic understanding of all of the above mentioned subjects would suffice. He also asked about one of the DBMS projects which we had to do for the course. After that they asked 2 questions on DSA for which we had to write fully functioning code. One of the question was based on QuickSort and other one was based on LinkedList

**Important CDCs and Electives:**
- OOP
- DSA
- DBMS
- OS

**What are some critical topics/skills essential for the process?**
They required good communication skills also apart from technical knowledge. A little less knowledge in technical components can be covered if your communication skills are good and if you present yourself in a confident manner.

**Sources to help in preparation:**
I referred to GeeksforGeeks for theory questions revision.

**Your suggestions to someone appearing for this company?**
You should have basic understanding of all the above mentioned subjects as they are asked by many companies in their interviews. Also, good command on any one of the Programming Languages is also necessary (C++, Java, Python). Also, work on your communication skills and the way you present yourself during an interview.

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# publicis
# sapient

**Company Name: Publicis Sapient**

**Eligibility: CS, ECE, EEE, EnI**

**CGPA Cut-off: 7**

**Roles: Software engineering intern**

**Selects: 2**

**Stipend: 35,000 per month**

**Selection Rounds: 3**

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**Name-** Hritik Singh Kushwah

**Recruitment Procedure**
- Online Test (DSA coding round on HackerRank)
  1st questions: 1st question was to implement website pagination. It was a straightforward implementation-based question.
  2nd Question: 1/0 Knapsack-based question, but it has to be implemented using recursion and not DP due to given constraints and conditions.

- Technical Round:
  He started the interview by asking me how I approached my questions from Online Coding Round. Unlike other companies, they didn't ask many DSA questions instead, questions were from Computer Science CDCs such as OOP (Majority of the questions), DBMS, and OS. Then he asked me to explain any one of the projects from my resume, and I selected my course project from DBMS. This round was about one and half hours long.

- HR Round:
  Questions were about how I approached my projects and general HR questions.

**Important CDCs and Elective Courses:**
- DSA,
- OOP,
- DBMS,
- Data mining

**What were some critical topics/skills essential for the process?**
- DSA problem solving,
- Fundamentals, and core concepts of OOP and DBMS.

**What kind of projects did you work on that were helpful to your selection?**
The course project of DBMS and Data Mining. If possible, upload them to your GitHub account because my interviewer looked at the source code of my DBMS project.

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**Sources to help in preparations:**
InterviewBit and Codeforces

**Your suggestions to someone preparing to appear in this company?**
Besides your programming skills, you should have a firm grasp of your CS subjects as well.

**Name:** Simran Sahni

**Recruitment Procedure**
- Coding round
  - It consisted of 2 coding questions. That could be attempted in any common programming language. the questions were
  - Q1: Maximum subsequence sum that is less than the given value K
  - Q2: String-based question, problem statement talked about Pagination, but in essence, you were expected to use the appropriate data structure on strings

- Technical Interview
  - The interviewer initially gave me a simple problem in the domain of System design, how would you go about developing the parking lot system of a mall. He wanted to test my approach on a daily life problem using OOP concepts & what could be the ways to go about in case the situation starts getting complex.
  - 2 DSA questions to code in front of him on a screen shared online IDE
    1) Minimum number of swaps to sort an array
    2) A question based on Trie data structure
  - Followed by a lot of theoretical questions on Operating Systems & OOP & Networks
  - Tech stacks I am aware of, basics of API & about REST framework.

- HR round
  - It like most of the HR rounds that one can read about on gfg
  - Why this company? Mention 3 of your strengths and weaknesses. What are you doing to work upon them? What has been your greatest achievement & failure by far? Where do you see yourself 5 years ahead in your career?

**Important CDCs and Elective Courses:**
- DSA,
- Discrete Math
- OOP

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**When did you start seriously preparing? How did you go about it?**
3-2, January (start of the previous sem)

**What were some critical topics/skills essential for the process?**
DSA skills in the first two rounds Composure & confidence in the HR round.

**What kind of projects did you work on that were helpful to your selection?**
Course projects are fine, but you could also showcase projects from your field of interest, like web dev or app dev. I knew the basics of App dev & had been a part of Microsoft Engage before that resulted in me working on a good web dev project. Talking about how I went onto solve the problem given to me, the tech stack selection, and finally working on it, helped me have a good impression in the tech round.

**Sources to help in preparations:**
- Leetcode
- Geeksforgeeks
- Competitive coding sites like Codeforces & Codechef
- Youtube channels of Gaurav Sen & Aditya Verma

**Your suggestions to someone preparing to appear in this company?**
- Be self-motivated
- Try to analyze where you stand & start early prep accordingly
- College courses help to a minimal extent, rest is your use of time & online resources

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**Company Name: Razorpay**

**Eligibility: Off Campus Internship**

**Roles: Product intern**

**Selects: 1**

**Stipend: 40,000 per month**

**Selection Rounds: 4**

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**Name:** Kanishk Pathak

**Recruitment Procedure**
- Product Sense Questions
- Guesstimates
- EQ Questions
- Execution-based Questions
- Metrics-based Questions
- Solution Tradeoffs

**Important CDCs and Elective Courses:**
DBMS For SQL, Otherwise the preparation has to be done from Independent Sources
(For Reference read 'Cracking the PM Interview by Gayle McDowell')

**When did you start seriously preparing? How did you go about it?**
- Cracking UPRAISED --> 10 Days (Preparation Source: Udemy Course --> Become a Product Manager by Cole Mercer)
- Cracking RAZORPAY --> 30 Days (Preparation Source: UPRAISED Material, Mock Interviews & Revision of Become a Product Manager Course)

**What were some critical topics/skills essential for the process?**
- Product Sense
- Technical Understanding (No need to Code!)
- Foundational Aptitude
- Stakeholder Communication
- Analytical Skills + Guesstimates
- Data Driven and Experimentative Nature
- Structured Thinking
- Emotional Intelligence
- Problem Solving Nature

**What kind of projects did you work on that were helpful to your selection?**
NONE, Though Pursuing 'New Venture Creation' Course helps!

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**Sources to help in preparations:**
The Internet is flooded with Resources hence Choose One and Stick to it. In my case, it was Udemy Course --> Become a Product Manager by Cole Mercer

**Your suggestions to someone preparing to appear in this company?**
Cracking UPRAISED

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**Company Name:Salesforce**

**Eligibility: B.E CS**

**CGPA cut off: 7**

**Roles: Software engineering intern**

**Selects: 3**

**Stipend: 90,000 per month**

**Selection Rounds: 3**

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**Name:** Rupsa Dhar

**Recruitment Procedure**
- Online coding round- It consisted of 3 coding questions of medium level.
- Interview round 1- This round was a technical round. I was asked to solve some coding problems. I remember one of them being the spiral matrix problem. Also some questions based on OOP and resume were asked.
- Interview round 2- This was also a technical round. A problem was asked to be coded based on DP. Detailed questions on OOP class diagrams were asked. Puzzle type problems were also asked.
- Interview round 3- This was a technical and HR round. Had to explain some of the projects and skills in my resume. Questions on some DBMS topics were asked. Finally quite a few HR based questions were asked.

**Important CDCs and Elective Courses:**
DSA, OOP, DBMS, Discrete Structures in CS

**When did you start seriously preparing? How did you go about it?**
I started preparing seriously after my PS1 ended. I solved questions on Codeforces and participated in a few contests. I also practiced questions from DSA course coding assignments. Geeksforgeeks and InterviewBit were very helpful. I started revising OOP and DBMS a week before the SIs started.

**What were some critical topics/skills essential for the process?**
- Clear concepts in DSA are very important along with practice in coding in limited time.
- In-depth knowledge of OOP and DBMS is important for questions in the interview.
- Effective communication to make sure the interviewer knows what you are thinking.
- They test logic and puzzle solving skills too.

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**What kind of projects did you work on that were helpful to your selection?**
- I had worked on a project using MERN stack during my PS1 which helped with some of the skills that were mentioned in the job description.
- OOP course project using Java and SQL.

**Sources to help in preparations:**
- Codeforces
- InterviewBit
- Geeksforgeeks

**Your suggestions to someone preparing to appear in this company?**
Focus on DSA and coding. But alo have a clear understanding of OOP and DBMS. Be prepared to answer questions based on skills and projects you have mentioned on your resume. Communicate effectively and confidently with the interviewer.

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**Name:** Pranav Reddy

**Recruitment Procedure**
Dsa, oops, dbms concepts as well as previous projects that you did. The final round was more of an open discussion where we talked about how some concepts like ML could be used to solve a particular problem.

**Important CDCs and Elective Courses:**
Dsa, Oops, dbms

**When did you start seriously preparing? How did you go about it?**
I did competitive coding from second year second sem and that really helped me.

**What were some critical topics/skills essential for the process?**
Basic oops and dbms. To pass the coding round you need to be able to codeforces 1400-1600 problems in half an hour to one hour. Topics like greedy, dp and graphs are popular

**What kind of projects did you work on that were helpful to your selection?**
My resume was mainly filled with ML projects. It doesn't matter what projects you do as long as you have a good grasp of the concepts involved.

**Sources to help in preparations:**
Competitive coding sites like codeforces, leetcode, interviewbit etc. For dbms and oops whatever they taught in the course is more than enough

**Your suggestions to someone preparing to appear in this company?**
The interviewers were very casual and made me feel really comfortable. Feel free to discuss your opinions and ideas with them. Always remember that it's ok to be wrong or say that you don't know. They don't expect you to get everything right. In fact I only answered about 75% of the questions overall. So don't be nervous and give it your best

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**Name:** Rushabh Musthyala

**Recruitment Procedure**
- Online Test - 3 questions, I think they were pretty tricky from what I remember. I got one fully and 2 partially (brute forced so I'd get at least some points)
- Interview 1 - There were a couple of puzzles I was asked. We had a detailed discussion on the stuff on my resume. 2 coding questions were asked here (much much easier than the coding round, they were related to greedy methods and linked lists).
- Interview 2 - This was almost identical to the previous interview. I was again asked some basic DSA questions (I was asked to list 5 sorting algorithms and to explain how they worked). There were also some basic OOP and DBMS questions. They asked quite a lot of SQL query related questions too
- Interview 3 - This was HR + System Design. I was asked to design BookMyShow. I told the interviewer I hadn't taken SE or CN at that point of time so he cut me some slack with respect to the technical jargon but he wanted to understand my thought process. I don't think they expected a "correct" or "perfect". This was followed by a series of HR questions. I was also quizzed extensively on the company itself and what they do.

**Important CDCs and Elective Courses:**
OOP, DSA, DBMS

**When did you start seriously preparing? How did you go about it?**
Started properly preparing after PS1 got over in the start of July. Mainly used InterviewBit and put in at least 1-2 hours per day until my 3-1 started. Once classes started I could not dedicate as much time. I also went through topic wise questions on geeksforgeeks.

**What were some critical topics/skills essential for the process?**
DSA, OOP, DBMS (especially SQL) and the ability to communicate effectively (this was very important in the system design part)

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**What kind of projects did you work on that were helpful to your selection?**
The interviewer seemed interested in an anomaly detection project I did although that wasn't really related to the role. Other than that, I was asked questions on my OOP course project (cab booking application).

**Sources to help in preparations:**
InterviewBIt, geeksforgeeks, leetcode

**Your suggestions to someone preparing to appear in this company?**
Study up on the company if you get shortlisted for the interview, they'll definitely ask you about it.

**Company Name: ServiceNow**

**Eligibility: B.E All**

**CGPA cut off:7**

**Roles: Software engineering intern**

**Selects: 8**

**Stipend: 70,000 per month**

**Selection Rounds: 4**

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**Name** : Shubh Deep

**Recruitment Procedure**
Online test: OOPS/DBMS MCQs and 1 DSA coding problem

Interview:
- ○ First round had 2 DSA questions.
- ○ Second round had one DSA question and a database design question
- ○ Third round was a HR round and had questions regarding my resume and projects

**Important CDCs and Elective Courses:**
- SE
- DSA
- OOPS
- DBMS

**When did you start seriously preparing? How did you go about it?**
Started preparing seriously around August after the first SI companies came.
Grind leetcode

**What were some critical topics/skills essential for the process?**
Good knowledge of DSA

**What kind of projects did you work on that were helpful to your selection?**
Full stack(MERN) Web Dev projects

**Sources to help in preparations:**
- Leetcode
- GeeksForGeeks

**Your suggestions to someone preparing to appear in this company?**
Apart from DSA be very thorough with the projects you list on your resume

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**Name:** Manan Patel

**Recruitment Procedure**
There was  one online round to shortlist for an interview and three online interview rounds.
- Coding (DSA) questions in the online test. (Level: Div2 A, B (Easy))
- In the 1st round of the interview, 3 DSA questions were asked. They were based on sorting, arrays, binary search etc. (Level: Div2 B, C (Medium))
- In the 2nd round of interview, 2 DSA questions were asked. They were based on DP, trees etc. (Level: Div2 C (Medium)). Some questions were asked based on my projects and interests too.
- In the 3rd round of the interview, random questions were asked. After asking a simple DSA question, the interviewer asked me if I had any queries since time was still left (Take this time to get to know more about the internship role and interviewer).

**Important CDCs and Elective Courses:**
- DSA
- OOP
- DBS

**When did you start seriously preparing? How did you go about it?**
I started my preparations after the end of PS-1. Solving InterviewBit questions really helped me a lot since a couple of questions asked in the interview were exactly the same ones which I solved on InterviewBit. I gave Div2 and Div3 contests on Codeforces and solved LeetCode questions regularly.

**What were some critical topics/skills essential for the process?**
- Make a habit to read the question twice before starting to think about it. I developed the skill to remain calm and think of different ways to solve a question before starting to code for it.
- Binary search is frequently asked in some form or another.
- For DBS: Normalization, SQL queries, ER modelling are important topics
- Be thorough with all the principles of OOP.
- C++ STL helps a lot.

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**What kind of projects did you work on that were helpful to your selection?**
Software engineering project, OOP project

**Sources to help in preparations:**
- InterviewBit
- LeetCode
- Codeforces
- Clément Mihailescu Youtube channel (Watch online coding interview videos on this channel)

**Your suggestions to someone preparing to appear in this company?**
It's not hard to get selected for ServiceNow. The interview questions were doable and enough time was given to solve them. One should keep talking to the interviewer about the approach he/she is following while solving the question. This helps the interviewer to understand your thinking process so that he/she can help you if you get stuck.

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**Name**: Anuj Kharbanda

**Recruitment Procedure**
● There was one  online test and three interviews
● The online round consisted of one coding question (divisibility of strings) and 15 MCQs on the basics of DSA, OOP, DBMS, OS, and Computer Networks.
● In the first interview round, one coding question was asked - Expansion of the Taylor series for e^x. The number of terms was not mentioned. The gist was to handle overflows.Then many questions were asked on OOP concepts like virtual functions, virtual classes, multiple inheritance in java, etc.
● The second interview round mainly focused on DSA, and I was asked two questions- Kth smallest/largest element in the array and min-cost path in a 2D array.
● The third interview round was focused on the resume. I was asked to explain my projects. I was asked one DBMS question (joins) as well. And a few basic questions like, "Given a problem, how do you approach its solution?", "How do you decide what data structure is required for a particular problem?" etc.

**Important CDCs and Elective Courses:**
● Major: DSA, OOP
● Minor: OS, DBMS

**What were some critical topics/skills essential for the process?**
DSA: Being able to reach an efficient solution starting from a naive one (bruteforce).
OOP concepts are really important.

**Sources to help in preparations:**
Specifically, Interviewbit, GFG, and leetcode for the SI preparation
And codeforces for general coding (if you still have time left for the start of the SI)

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**Name:** Ketan Goyal

**Recruitment Procedure**

- Online rounds, Interview Qs which mainly had DSA, OOPS
- Resume shortlisting was also done after the online round after which 28 students were shortlisted for interviews and in the end 8 were selected.
- The entire process was conducted online, all the interviews.
- 4 rounds (1 Online, 2 Tech interview, 1 HR interview)
- In the online round, 1 DSA based Q was asked which can be easily practiced on online platforms and 20 MCQs based on DSA,OOPS , OS and DBMS were asked.
- In the 1st technical round, 2 DSA based Qs were asked, one from Array implementations 1 from Dynamic Programming .(45 mins)
- The 2nd tech round was of 1.5 hrs, in which 3 coding Qs were asked, 1 was array implementation based, second one was heap implementation question and the 3rd one was implementing BFS in Binary trees with slight modifications. Then Rapid fire Qs were asked on DSA and OOPs. Insertion Sort: Definition, worst- and best-case complexity.
- The HR round was of 30 mins, general routine and standard Qs were asked. Some Qs on my resume were also asked , which included questions based on my PS1 project mainly.
- Some case study based questions were also asked.
- Then, for some people another HR round was taken by the recruiter itself, in which the recruiter had a small generic talk and asked Qs based on the company.

**Important CDCs and Elective Courses:**
DSA, OOPs, OS, DBMS
Standard coding preparation sites like interviewBit/ Leetcode can help cover a good range of problems, but practice is needed, and definitely for a non-CSE student, this will require extra effort.

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**When did you start seriously preparing? How did you go about it?**

I started learning and implementing STL in C++ during my PS1. But I didn't practice many questions during this time. I did feel as if competing for IT internships when coming from a different branch is an uphill task. The earlier the one starts preparing in terms of coding and DSA, the better.
When the semester (3-1) started, I started doing leetcode aggressively. I set my target to practice at least 10-20 questions everyday so that I can cover most of the topics in 30 days. Codechef, etc. are also great sites, but it's better not to frantically run to different sites, unless that works for you. CP-algorithms are a great place for conceptual understanding. Finally, I used to look at company specific questions on geeksforgeeks archives before each Interview. By the time internship drive was midway (Last week of september), I had covered most of the topics which gave me some confidence.

**What were some critical topics/skills essential for the process?**
- Basic OOP concepts.
- DSA. Maximum companies focus only on this
- Sorting algorithms.
- Binary Search Tree.
- Ability to explain algorithms and analyze it's time complexity properly.
- Some soft skills will be great to create a good impression.

**What kind of projects did you work on that were helpful to your selection?**
I had made a basic Tic-Tac Toe project and my PS1 project which was ML based. They grilled me mainly on my project itself during the HR interview, so it's important to be very thorough with the projects you list on your resume, even if they are few in number.

**Sources to help in preparations:**
- Previous year questions from GFG for online tests and interviews. Some of the questions in the online test were directly taken from previous year tests.
- GFG for STL and algorithms.
- Leetcode for practicing.

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**Your suggestions to someone preparing to appear in this company?**
Just be clear with how you explain your algorithms and sound confident. Thorough knowledge of projects listed in the resume. Coding test isn't as difficult as the ones for other companies, so you stand a good chance here, even if you don't come from a CSE background.

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**Name** : Adesh Pradhan

**Recruitment Procedure**
- Good understanding of DSA, OOP, DBMS
- Relatable projects (CS course projects were enough)
- There were 4 rounds in total

Online test (75mins)
- There were 15-20 questions on DBMS, OOP, SQL, DSA. They mainly were GATE questions of moderate difficulty
- 2 coding questions were asked, 1 easy and 1 of medium difficulty level

Interview Round 1 (45mins-1hr)

- Given 2 sorted arrays, the first array of size m+n having m numbers and the second array of size n having n numbers, you need to merge them in the first array without using extra space and in O(n) time complexity. Make sure you speak out the approach you are following to the interviewer and why you are using that particular approach, including the time-space complexities involved in the process of solving, don't worry about not being clear or wrong. If not asked to, start with a brute force approach and optimize it iteration-wise. I was asked an optimal question in the first go, and while I was explaining to him my approach before starting to code, he sensed my mistake and stopped me and gave a hint. I was able to get that hint and solve it, which impressed him. I had to code it in front of him.

- The next question was of medium difficulty, and I was asked to implement the LRU cache with the best-optimized solution. I started with brute force and optimized each data structure and algo in the process; even if you know the answer, don't jump directly to the final answer; explain at each step the current complexity and then the data structure you will use to optimize that. I only had to explain to him my approach, no coding for this.

- Next, he asked OOP concepts related to copy constructor, abstract classes, friend functions, and many more. He also asked 2 SQL queries. After this round,

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the interviewer was happy with me, so all my next interviews were scheduled at the earliest.

Interview Round 2 (45mins-1hr)
- I was asked a few behavioral HR questions such as, tell your strengths and weaknesses, why I should not take you, and pro-tip don't give any reason, say you should take me. I was asked to write pseudo code for bubble sort and selection sort and a few DBMS questions.

Interview Round 3 (45mins-1hr)
- She started to ask about my projects; I had to explain the CS fundamentals used in them in detail. Related to my projects, I was asked to describe BNF forms and functional dependency, I was given a table with FDs and had to bring it to the highest Normal Form I could. A few behavioral questions were asked like why I want to join ServiceNow, the company's principles, and what cloud computing is.

**Important CDCs and Elective Courses:**
- OOP
- DBMS
- DSA

**When did you start seriously preparing? How did you go about it?**
- I started seriously from April 2020, at that time I couldn't even code a basic Tree or graph dfs-bfs problem. I opened the data structures section on GFG and solved 30-50 problems from each data structure. I didn't code for the problems which I could solve in my head. It was quite overwhelming for the first 2 months and I used to watch youtube videos for the problems I couldn't solve.
- For DP I followed Aditya Verma's playlist, his way of teaching is awesome. Then I solved Most asked interview questions for product based companies on GFG, later in the month of July I targeted InterviewBit, a must do before SI season starts.

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**What were some critical topics/skills essential for the process?**

- Problems on 2pointers, sliding windows, dynamic programming, trees, graphs from DSA. Make sure you have decent projects on your resume, if not at least put the course projects and make them look interesting, that is what I had to do.
- Invest a few weeks on revising OOP, DBMS, SQL. Know STL properly if you code in C++, you should be thorough with complexities of all the methods.

**Sources to help in preparations:**
- GFG
- Leetcode
- Interviewbit
- Youtube

**Your suggestions to someone preparing to appear in this company?**

- Make sure you know enough about the company, the tech stack they use, their principles, achievements, and why all this aligns with you. This is very important as not knowing all this could raise red flags.
- Be prepared for the SI season well before the semester starts, 3-1 is a demanding semester and in no time you would see people getting SI, starting at that time would be extremely stressful.
- Be composed, your english doesn't matter much as long as you could explain yourselves properly
- Make sure you are able to solve problems using OOP principles/classes, it was expected in DE Shaw interview.
- Spend an evening reading about all behavioral questions and standard replies to them. I was asked these for an hour in the Salesforce final HR interview.

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**Name:** Achyuta Krishna V

**Recruitment Procedure**
- There was one online round and three interviews
- Online round had 2 parts. The coding part had questions based on DSA and the MCQ part had questions from OOP, Database systems, DSA and programming fundamentals (CS F111).
- The first technical round was focused on DSA. I was asked questions based on priority queue and heap data structure.
- The second technical round had questions from OOP and Database systems apart from DSA. In the HR round, I was asked generic questions like what are my positive points, why should they select me, why should they not select me etc.

**Important CDCs and Elective Courses:**
- DSA
- OOP
- Database systems
- C programming (CS F111)

**When did you start seriously preparing? How did you go about it?**
I started preparing only towards the end of PS1. It was a little late, so I concentrated mainly on DSA and revised course slides for OOP and Database systems. I also went through questions asked by the company in previous years which was very helpful.

**What were some critical topics/skills essential for the process?**
Good understanding of the concepts of DSA was important. In database systems, a lot of questions on SQL were asked.

**What kind of projects did you work on that were helpful to your selection?**
Course projects in OOP and Database systems and my PS1 project which was based on application development.

**Sources to help in preparations:**
Interview bit is a good source for practicing coding questions. Textbook and slides for OOP, Database systems and C programming

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# ⚡ Walmart Labs

**Company Name: Walmart Labs**

**Eligibility: C.S, ECE, EEE, EnI**

**CGPA cut off: 7**

**Roles: Software engineering intern**

**Selects: 12**

**Stipend: 80,000 per month**

**Selection Rounds: 2**

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**Name:** Parth Krishna Sharma

**Recruitment Procedure**
- Mainly DSA skills and OOP/DBS concepts are important
- Two rounds - One Coding test and one interview
- In round 1 some MCQs were there based on OOP/DBS/OS/DSA and one coding question.
- In round 2, it was a normal HR like interview.

**Important CDCs and Elective Courses:**
The three very important CDC's were more than enough for solving / answering the questions -
- DSA
- OOP
- Database Management

**When did you start seriously preparing? How did you go about it?**
- I started around one month before the drive began.
- I mainly focused on DSA concepts and competitive Coding contests / problems.
- I made a list of all major DSA topics and alloted time to study each of them.
- I also started giving codeforces contests regularly and solving InterviewBit problems.

**What were some critical topics/skills essential for the process?**
- DSA - Mainly graph theory
- OOP and Database - Basic Concepts

**What kind of projects did you work on that were helpful to your selection?**
I just had normal DBS and OOP course projects. My PS1 Project which was based on WebD.
But they didn't look at my resume / or based the selection on projects / resume.

**Sources to help in preparations:**
- Codeforces
- InterviewBit / LeetCode

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- YouTube (Tushar Roy/ Abdul Bari)

**Your suggestions to someone preparing to appear in this company?**
Start as early as possible and try practicing more and more questions.
Especially A, B and C level questions on Codeforces and try to finish InterviewBit.
Do topic wise study of DSA and try to strengthen each topic one by one.
Also, try to give as many codeforces/codechef contests, kickstarts etc as possible.

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**Name:** Shreyansh Kr Surana

**Recruitment Procedure**

Rounds included a coding test + 1 mixed (Tech+HR) interview
- The coding test consisted of few MCQ questions based on OOP, OS and 1 DSA question based on DFS from Graph Theory
- The interview mainly revolved around my PS-1 project along with a basic binary search problem.

**Important CDCs and Elective Courses:**
Being from EEE branch, I hadn't done any CDCs or Elective Courses which helped me in preparation for tests or interviews.

**When did you start seriously preparing? How did you go about it?**
Around April 1st week. I had only basic knowledge of C++ programming before my serious preparations began. I started off by following the Summer series of the BPHC Competitive Coding Group and started solving questions regularly on CodeForces. After 2 months of daily rigorous practice on CodeForces, I then moved on to InterviewBit around June. I solved all questions on InterviewBit at least once. Around the same time, I started following Gururaj Sir's lectures for OOP.

**What were some critical topics/skills essential for the process?**
DSA and OOP. In DSA, critical topics would be trees and graphs. An absolute essential skill would be analyzing time complexity of your solution along with the ability to explain your thought process in coming up with the same.

**What kind of projects did you work on that were helpful to your selection?**
I had only my PS-1 project which helped me in my selection.

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**Sources to help in preparations:**
- InterviewBit - it is an absolute must for the sole reason of it providing concise, to-the-point questions. Flipkart's interview process involved two indirect questions from InterviewBit.
- GeeksForGeeks company specific experiences.
- Any Coding platform where you can practice writing code on a regular basis. I prefer CodeForces because I find the questions very intuitive and easy to grasp.

**Your suggestions to someone preparing to appear in this company?**

Practicing is the key. DO NOT MAKE THE MISTAKE OF TAKING PS-1 LITE. If you are from a circuital branch, chances are that's the only project you would have on your resume. Majority part of my interview revolved around the discussion of my project. For Walmart Labs specifically, focus on acing the coding test. The interview process is much easier than the rest of the companies. Talk to as many people possible from other colleges where the companies have already visited as well as your seniors. Companies often tend to repeat the pattern of the test on Y-o-Y basis.

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**Name:** Venkateshwar Dhari Singh

**Recruitment Procedure**
- First round was an online test which had MCQs and a coding question. MCQs were from basic concepts of DSA(Time and Space complexity),DBMS,OOP. The coding question was based on Tree Traversal(DFS).
- Second round was an interview. Questions were mostly asked from projects, its implementation, theory related to it, why a specific package or method was used, its alternatives and how to scale it etc.

**Important CDCs and Elective Courses:**
- DSA
- DBMS
- OOP

**When did you start seriously preparing? How did you go about it?**
After PS1. I started preparing by giving Codeforces contests first but shifted to InterviewBit later.

**What were some critical topics/skills essential for the process?**
- DSA Fundamentals
- Basic knowledge of OOP concepts.

**What kind of projects did you work on that were helpful to your selection?**
OOP and Cryptography course project.

**Sources to help in preparations:**
- InterviewBit
- Codeforces
- GeeksForGeeks

**Your suggestions to someone preparing to appear in this company?**
Know the implementation of your projects thoroughly. Most of the questions asked in the interview were from projects.

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**Name:** G Sathyaram

**Recruitment Procedure**
The was an Online Coding and Aptitude round and a HR round
- Round 1: Aptitude, OOPS, (basic)Networks, (basic)OS, DBMS, DSA, Coding
- Round 2: HR, DSA, OOPS

**Important CDCs and Elective Courses:**
- DiSCo
- DSA
- OOPS
- DBMS
- (basic)Networks
- (basic)OS

**When did you start seriously preparing? How did you go about it?**
I didn't prepare separately for SI until a month before the SI drive. I was decent in DSA and competitive programming around the beginning of 3rd year, this helped me have an edge on algorithmic and coding questions. All coding/algorithmic/DSA questions asked in any round are mostly from the Leetcode medium - hard level section. You need at least a month of dedicated coding run to finish all those problems. I had to prepare separately for OOPS, DBMS and other CDC, sometimes Networks and OS are also asked. Maintaining notes for all these CDC for revision helps.

**What were some critical topics/skills essential for the process?**
Aim to get selected in one of 2-3 companies of your choice and prepare well ahead of time with help of question banks available for specific companies in GeeksForGeeks. Preparing generally for all companies is difficult except for DSA. DSA and analytical skills are critical but not everything. OOPS, DBMS, (basic)OS, (basic)Networks, basic soft skills and being original during interviews are very important. Resume and Projects are also important. Learn and make quick notes of your projects and explain it well during interviews if asked.

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**What kind of projects did you work on that were helpful to your selection?**
Data Science (ML, AI, Data Mining etc.) projects sure help you in the selection process of Data Science type roles, for example in Adobe Research roles. For Software roles, CDC and other projects are enough.

**Sources to help in preparations:**
- Leetcode
- Cp-algorithms
- CSES
- CDC Textbooks

**Your suggestions to someone preparing to appear in this company?**
Prepare a good amount of graph problems, DSA and aptitude problems. Build a good resume stating your strengths, learn about the company's strengths and achievements and prepare a good amount of real life HR type questions and don't forget to be yourself and keep calm during an interview.

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**Name:** Maurya Grover

## Recruitment Procedure
- DSA based round 1
  Online test had questions related to OOPS DSA DBMS OS and General Aptitude
- And HR based round 2
  The interview was a generic HR interview with some logical puzzles and basic tech questions and personal motivations"

## Important CDCs and Elective Courses:

- DSA
- OOPS
- DBMS
- OS
- Software Engineering

## When did you start seriously preparing? How did you go about it?
Summer of 2020
Just grinded questions on Hackerrank. Almost all medium level problems and some hard level problems

## What were some critical topics/skills essential for the process?
Coding / DSA are the only major skills needed. But the multi-correct section had problems related to OOPS, DBMS etc

## What kind of projects did you work on that were helpful to your selection?
I mainly had Mobile App Dev projects on my resume and some course projects(like OOPS, DBMS)

## Sources to help in preparations:
- Geeksforgeeks
- Leetcode
- InterviewBit
- Hackerrank

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**Your suggestions to someone preparing to appear in this company?**
Just do your best to get through the coding round. Interview round is significantly easy.
Only generic questions are asked.

**Name:** MEHUL CHANDWANI

**Recruitment Procedure**
There were 2 rounds:
 Online Test
- MCQs, testing knowledge in aptitude, OS, OOP (Java), Computer Networks
- and DSA (50 marks)
- A coding problem based on graphs (50 marks)

Interview Round
- Questions were asked on DSA mainly about linked lists (linear, circular, doubly), trees and BST.
- A real life situation asking how will you tackle it and changing the situation based on my answer
- Why walmart labs

**Important CDCs and Elective Courses:**
Actually, none of the CDCs or Electives really helped as all my courses were from the electronics domain.

**When did you start seriously preparing? How did you go about it?**
I seriously started preparing for SI during my PS-1 and I started with competitive coding on codeforces. I regularly gave contests to track my progress and to compete in a real time competition. After I gained a bit of confidence about my problem solving ability, I shifted more towards gfg and leetcode for DSA based problems. Finally, I ended up solving interviewbit for selected nice problems.

**What were some critical topics/skills essential for the process?**
Ability to think and solve DSA questions quickly and accurately will be vital. Basic knowledge of OOP and dbms would also help. Also, keeping your nerves during the interviews and confidence will be essential, as it is of no use if you know the answer but can't convey it properly.

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**What kind of projects did you work on that were helpful to your selection?**
Actually I didn't have any great projects, so I included the project which we did in our core subject (MPI) and was not that helpful.

**Sources to help in preparations:**
- Codeforces
- Leetcode
- geeks for geeks
- interviewbit
- youtube.

**Your suggestions to someone preparing to appear in this company?**
Start doing competitive coding as you will require problem solving skills at least for the first round and maybe in further rounds if you are lucky enough. Accept if you don't know something during an interview instead of bluffing something randomly coz the interviewer will eventually come to know about it. Practice answers to common questions in front of the mirror and try explaining your projects and internships lucidly. Prepare for standard HR questions from youtube and be confident while speaking anything during the interview.

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**Name:** Ananya Jain

**Recruitment Procedure**
There were 2 rounds
Online round: - 25 MCQs (50 marks) and 1 Coding Question (50 marks)
  MCQs came from the following topics:
- OS (mostly on threads)
- OOP
- DBMS
- DSA (searching algorithms)
- MAT (Mental Ability Test/Aptitude)
- Programming question: finding number of articulation points using DFS in a tree

Interview Round:
- Each candidate had to either sit for a technical interview or an HR interview based on some internal criteria.
- General questions on background and interests.
- Explanation of a listed project done during PS1.
- Since I was doing Artificial Intelligence (CS F407) and Human Computer Interaction (BITS F364) during that semester, I asked about the ongoing projects and how knowledge of such subjects can be an asset to the company.
- Lastly, generic HR questions like Strengths/ Weakness and future goals.

**Important CDCs and Elective Courses:**
Being from an electronics background, my CDCs or electives weren't very helpful for preparation. My knowledge of DSA and other topics helped me through instead.

**When did you start seriously preparing? How did you go about it?**
I started preparing during my PS-1 time, so having an online PS-1 helped a lot. Initially started by doing a DSA course on Hackerrank and then shifted to InterviewBit and Leetcode. For courses like OOP, DBMS and OS watched YouTube videos and read through Geeks for Geeks.

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**What were some critical topics/skills essential for the process?**
- Fundamentals in DSA (Good time complexity analysis)
- Ability to confidently present yourself and good interaction skills

**What kind of projects did you work on that were helpful to your selection?**
During PS-1 I worked on enabling sign-in using third party applications (Google, fb) for a website.

**Sources to help in preparations:**
- InterviewBit, Leetcode, Hackerrank for coding round
- GeeksForGeeks (Some of the MCQs were taken from the practice sets of GFG)

**Your suggestions to someone preparing to appear in this company?**
Know about Walmart Labs, what they do, what are their current/future projects and be comfortable with writing code under a time constraint. Practice answers to common HR questions in front of the mirror and try explaining your projects and internships lucidly. Also, have a look at the previous year's questions available on GFG or InterviewBit before appearing for a company's test.

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**Name:** Kirti Vatshal Mishra

**Recruitment Procedure**

- First Round was an online test on hackerrank platform. There were 25 MCQs and 1 coding question. The coding question was a simple DFS problem. The MCQs had OOPS, OS, DBMS and Aptitude Questions. The people were shortlisted on the basis of score in the test.
- Second Round was more of an HR Round, but I was asked 1 binary search question (logic only) and 1 puzzle. Apart from this typical HR based questions were asked, like why should we hire you, what separates you from others. Some people however were grilled on OOPS. So it depended a bit on who the interviewer was.

**Important CDCs and Elective Courses:**
Being a Math + ECE dualite, graph theory and Discrete Mathematics were the subjects that were helpful as far as courses from curriculum are considered.

**When did you start seriously preparing? How did you go about it?**
I started preparing around April. My main focus was DSA, so I did interviewbit and leetcode for practice. There were some topics which were essential to understand before solving problems. Regarding this I watched Aditya Verma's playlists on YT of DP, Stack etc. For Data Structures basics, I did it through mycodeschool on YT. Another channel CodeNCode was helpful for preparing the graph theory part.
For OS and OOPS - Gate Smashes on YT. Though I would recommend Google top 50 questions on these topics and make a note of them. Same goes for DBMS. There aren't any questions usually asked, apart from these 50.

**What were some critical topics/skills essential for the process?**
- DSA - Data Structures and Algorithms (70-80% of the interview process for almost all companies depends on it)
- OOPS + OS + DBMS - Combined weightage same as DSA.

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**What kind of projects did you work on that were helpful to your selection?**
I had a web development project and a study project in my resume. You need to know the tiny details of the project, but be aware of how different components interact and work.

**Sources to help in preparations:**
- DSA - Aditya Verma, mycodeschool, CodeNCode, Abdul Bari (all on YT)
- OOPS+OS+DBMS - Gate Smashers, Neso Academy (YT)

**Your suggestions to someone preparing to appear in this company?**
The online round is the key for main DSA based questions. So if you clear that, it becomes a game of convincing the other person why you're better than others who solved the same problem and got shortlisted. So focus on clearing the online test, which is a lot dependent on DSA (50% weightage) but don't neglect other questions as many who solved the 1 coding question were not shortlisted, due to lower scores in other sections. Once it's done, focus on HR based questions and keep the conversation going.

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**Name:** Siddarth Suresh Gopalakrishnan

**Recruitment Procedure**

Online test
- One programming question on Graph Theory.
- Some MCQ type questions on topics such as Database Systems, OOPS, DSA and OS, along with some logical reasoning/aptitude questions.

Interview round
- Detailed discussion about my projects.
- Some questions on Databases and OOPS fundamentals.
- One puzzle type binary search related problem. Had to explain the brute force solution first and optimize that.
- Few basic HR questions.

**Important CDCs and Elective Courses:**
- Data Structures and Algorithms
- Discrete Structures of CS
- OOPS
- Database Systems

**When did you start seriously preparing? How did you go about it?**
Started preparation about 2-3 months before the SI Drive. Used to read up basics from GeeksforGeeks and practice problems on Codeforces and InterviewBit towards the end

**What were some critical topics/skills essential for the process?**
- DSA and Discrete Structures of CS were essential in problem solving and helped in understanding the concepts well.
- DBS and OOPS are important from MCQ and Interview perspective. A good understanding of the fundamentals, especially for OOPS, is needed as it shows confidence in the interview rounds

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**Sources to help in preparations:**
- Codeforces for practice
- GeeksforGeeks to learn concepts and implementations
- InterviewBit for testing yourself (but only towards the end of the preparation)

**Your suggestions to someone preparing to appear in this company?**
Be thorough with whatever you put on your resume. Courses, internships (if any) and most importantly your projects. You should know everything about the projects you've mentioned and the technologies used as they could go into the details during interviews.
Be confident and enthusiastic in the HR round of the interview
Be thorough with fundamentals of OOPS and DBS as they're important for the MCQs and the interview round.

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**Company Name: Uber**

**Eligibility: B.E All**

**CGPA cut off: 0**

**Roles: Software engineering intern**

**Selects: 2**

**Stipend: 1,60,000 per month**

**Selection Rounds: 4**

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**Name:** Nipun Wahi

**Recruitment Procedure**
- It took a coding test, those who did more than 2.5 questions out of the three were selected for an interview.
- There was one coding round , two technical interviews, one HR round
    - In the coding round , questions were based on graphs,dp and like mergesort for counting inversions. The questions were not straightforward so after some transformations of input you would be able to use the standard algorithms to get the required answer.
    - For the technical interviews in the first round they asked a question based on binary search + Segment Trees. They also asked about time and memory complexity. In the second round the question was based on dp on graphs.
    - In the HR round he asked basic HR questions and some open ended technical questions.

**Important CDCs and Elective Courses:**
- DSA
- OOP

**When did you start seriously preparing? How did you go about it?**
I started after the lockdown and had about 4-5 months to prepare. I started with giving regular codeforces contests. Before the internships I revised OOPS and DBMS also for the interviews.

**What were some critical topics/skills essential for the process?**
- DSA
- Problem Solving Skills

**What kind of projects did you work on that were helpful to your selection?**
I had done course projects and 1 project based on networking . The interviewers didn't ask anything about the projects.

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**Sources to help in preparations:**
- Geeksforgeeks
- Codeforces
- leetcode

**Your suggestions to someone preparing to appear in this company?**
Improve your data structures and problem solving skills and keep giving regular contests on platforms like codeforces.

# THANK YOU

For any queries, feel free to contact
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