



2021-2022

Summer Internship Chronicles

Recruitment process & Interview experiences

PREPARED BY
Placement Unit BPHC
SI Season AY 21-22





FOREWORD

Dear Students,

It gives us immense pleasure to present the SI Chronicles for the AY 2021-2022. 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

BITS Pilani Hyderabad Campus





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Adobe

Eligibility: BE CS, ECE, EEE, ENI

CGPA Cutoff: 7+

Roles: Product Intern

Selects: 4

Selection Rounds: 2

Stipend: 1,00,000



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Name: Ishita Menon

ID number: 2018B5A70013H

CGPA: 9

Role: Product Intern

Recruitment Procedure:

Round 1:

(Online Test)

1. There were a total of 3 sections in the online test.
2. Section1 was a coding round
3. Section 2 was an MCQ round
4. Section 3 asked the applicant to write a short essay on their favourite project.

Round 2:

Round 2 is an interview for the shortlisted candidates. In the interview, they test your knowledge regarding the technical aspects.

Important CDCs and Elective Courses: DSA,OOPS,DBMS

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

Started serious preparation after compre in may.

1. Referred to the SDE sheet attached below
2. Solved company-wise questions from leetcode
3. Referred to SI chronicles and geeks for geeks archives for interview prep

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

1. Sound knowledge of data structures and time complexity analysis is essential to determine which data structure to choose to obtain the most optimal solution.
2. Communicating well with the interviewer by asking about corner cases, expected time complexity, etc.





What kind of projects did you work on that was helpful for your selection?

1. Course projects in OOPS, DBMS
2. Microsoft Engage's project.

Sources to help in preparation :

1. SDE sheet: <https://takeuforward.org/interviews/strivers-sde-sheet-top-coding-interview-problems/>
2. mycodeschool on youtube for theory.
3. Aditya Verma's youtube playlist for DP.

Your suggestions to someone preparing to appear in this company?

Focus your maximum time on DSA. Be honest while communicating with the interviewer and admit if you don't know the answer to something. They are accommodating and often work with you to find the solution.

Name: Ritika Garg



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ID number: 2018B3A70258H

CGPA: 8.76

Role: Product Intern

Recruitment Procedure:

Round 1:

(Online Test)

1. There were two questions based on DSA.
2. Few other MCQ questions were asked on Logical Reasoning.

Round 2:

(Technical Interview)

1. I was asked to talk about various aspects of my resume.
2. I was given a coding question to solve in the language of my choice.

Important CDCs and Elective Courses:

Computer Programming, DSA, OOPs, and DBS

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

I started training around the beginning of summer after 3-2, after completing the DSA course in college. I solved questions on Leetcode after learning basics from GFG and several YouTube videos, along with Interviewbit, when the internship drive started.

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

DSA, logical reasoning, writing clean code, and ability to communicate well with the interview.

What kind of projects did you work on that was helpful for your selection?





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The projects I completed in OOPs, DBS, and PS-1 were the main focus during my interview round.

Sources to help in preparation :

Leetcode, GFG, and Interviewbit

Your suggestions to someone preparing to appear in this company?

While practicing questions, try to find the time complexity of the algorithm you write since it is asked every time you solve a question in an interview. You should be able to explain your approach to the problem to your interviewer. Lastly, whenever you go for an interview, research a little bit about the company if you are unaware; it is always beneficial.

Name: Akshat Anil Jain

ID number: 2019A7PS0117H



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CGPA: 8.9

Role: Product Intern

Recruitment Procedure:

Round 1:

(Online Test)

1. There were two questions on DSA, one based on deque and one was a greedy question.
2. They also asked MCQ based on probability, linear algebra, and logic.
3. We also had to write an essay on one of our projects.

Round 2:

(Technical Test)

1. The interview consisted of 2 DSA questions, one logic question, and some oops and general language questions like how is vector implemented in C++.
2. The DSA questions are based on tree and heap.

Important CDCs and Elective Courses:

OOPS, DSA

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

I started training seriously after my 2-2 during my PS1. Leetcode and interview bit are very good for preparation for SI.

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

DSA is an essential thing you should know for the process; after this comes OOPS, DBMS, and projects.





What kind of projects did you work on that was helpful for your selection?

I had 3-4 course projects for which the interview asked, and we briefly talked about them for some time.

Sources to help in preparation :

1. LEETCODE
2. INTERVIEW BIT
3. <https://github.com/the-hyp0cr1t3/DSA-Training-2021>

Your suggestions to someone preparing to appear in this company?

Be clear in your basics in DSA; they expected the logic more than just implementation.

Name: Shatakshi Gupta

ID number: 2019A3PS0397H

CGPA: 8.53





Role: Product Intern

Recruitment Procedure:

Round 1 (Online Test):

1. There were two questions on coding.
2. There were even questions based on linear algebra and logical aptitude.

Round 2 (Technical Interview):

1. The questions asked in the technical interview round were based on DSA.
2. Primary emphasis has been laid on priority queues and binary search.

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

I started training in June. It is only about focused hard work for a couple of months. I began with CRUX's summer course, uploaded on GITHUB. Last month, I mainly focused on interviewBit and participated in weekly contests on Leetcode.

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

DSA

Sources to help in preparation :

1. Leetcode
2. InterviewBit.

Your suggestions to someone preparing to appear in this company?

DSA should be your strong point.





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Amazon

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

CGPA Cut-off: 6.5

Roles: Software Developer Intern

Selects: 6

Selection Rounds: 2

Stipend: 80,000



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Name: Vatsal Nagelia

ID number: 2019A7PS0013H

CGPA: 8.71

Role: Software Developer Intern

Recruitment Procedure:

Coding Round:

- Two coding questions along with some aptitude and behavioral questions.
- One coding question was pretty simple, but the second one involved some thinking.
- Overall it was moderate to difficult.

Interview Round:

- The interview started with my introduction and jumped straight into DSA problems.
- The first question could be solved by converting a binary tree to a linked list and then performing some operations on it.
- The second question was based on Stack.
- Overall the interview was of moderate difficulty.

My interview finished around 40 minutes after which we had a talk about the interviewer and his role and my projects but this was informal.

Important CDCs and Electives

DSA.

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

Leetcode, at the end of the second year.





What are some critical topics/skills essential for the process

1. Data Structures -Linked Lists, Stacks, queues, Tree
2. Algorithms-DFS, spanning tree, various linked lists traversing algorithms

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

Projects were not considered as such.

Sources to help in preparation

Leetcode.

Your suggestion to help in the preparation

Do previous year's amazon leetcode questions.





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Name: Kevin Biju Kizhake Kanichery

ID number: 2019A7PS0045H

CGPA: 7.85

Role: Software Developer Intern

Recruitment Procedure:

- Obtained via winning a hackathon.
- Mostly DSA
- One coding question asked in the interview

Important CDCs and Electives

DSA, Discrete Structures

What are some critical topics/skills essential for the process

1. Competitive coding
2. Communication skills

Sources to help in preparation

- InterviewBit
- Codeforces

Your suggestion to help in the preparation

Participating in hackathons can be a shortcut towards getting an internship.

Name: Lakshay Tomar



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ID number: 2018B1AA0578H

CGPA: 7.6

Role: Software Developer Intern

Recruitment Procedure:

Online round:

The first round was the online round which had four sections.

- Code debugging: 7 questions were there in which we had to find the error in the code given and then correct them. Time was 20 minutes for this section.
- Coding: There were 2 coding questions to solve in 70 minutes.
- Work-style Assessment: It had various situational questions to test our reactions to different situations. There was no time limit for this section.
- Aptitude: It had 24 aptitude and reasoning questions to solve in 35 minutes.

Technical Round:

The second round was the technical round. It was a 60 minutes round taken on Amazon Chime. After a brief introduction of myself and the projects I had done, 2 coding questions were asked.

- The first question was on hashing.
- The second question was on Topological sort (Graphs).

Important CDCs and Electives

Data Structures and Algorithms.

What are some critical topics/skills essential for the process

DSA is the most important skill required for coding rounds and interviews.

Sources to help in preparation

- LeetCode
- GeeksforGeeks
- InterviewBit

Your suggestion to help in the preparation

- Be good at DSA.
- Go through the Leadership Principles of Amazon.





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- Keep communicating with the interviewer and let him know about your approach.

Name: Samarth Ashish Patel

ID number: 2019A8PS0526H

CGPA: 8.5



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Role: Software Developer Intern

Recruitment Procedure:

Coding Round:

Coding Round had 4 parts-

- Code Debugging (Very Easy)
- DSA - 1 Leetcode Medium and 1 Leetcode Hard level
- Work Styles Assessment - Work ethics-related questions
- Logical Reasoning - Standard logical reasoning questions (Easy)

Technical Interview:

- 2 DSA questions.
- The first one was an array + stack question (Leetcode Medium level)
- Binary Tree question (Path Length having maximum number of bends)

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

Started preparing after PS-1, then left it after a month. Started preparing seriously in Jan (after 3-1 end).

What are some critical topics/skills essential for the process

DSA.

Sources to help in preparation

- LeetCode
- GeeksforGeeks
- InterviewBit

Your suggestion to help in the preparation

Try to solve as many previously asked interview questions as possible.

Name: Raja Vardhan Reddy Siriganagari

ID number: 2019A7PS1337H

CGPA: 8.79





Role: Software Developer Intern

Recruitment Procedure:

Coding Round:

The online coding round had 4 parts:-

- Code debugging (20min):- Around 7-8 programs in the C language with logical and syntax errors were given. Can be done by anyone who has basic knowledge of C.
- DSA (70min) :- 2 problems. Would classify them in the leetcode easy-medium range.
- Behavioral (~30min):- Specific situations were given along with a scale and we had to choose an action/response that best describes what we would do in that situation.
- Aptitude (~30min):- Similar to BITSAT logical reasoning part. Pattern matching, guessing the next number/letter in sequence, logical deduction etc

Interview:

DSA problems based on Linked Lists, Heaps, Binary Search, Graphs, and Topological Sort.

Were a step up from the online coding round.

Important CDCs and Electives

Introduction to C Programming, Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems

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

I started preparing after the end of my 2-2 and during PS-1. I wasn't very regular in my preparation and had many weak topics to work on. The thing I would say that was most helpful to me was to prepare from a few different sources instead of sticking to one site as I did at the start of my preparation.

What are some critical topics/skills essential for the process

The entire process is pretty much based on DSA. Knowledge of OOPS and DBMS is required in most interviews but I don't think they make or break the interviews.





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

There were 2 projects on my resume apart from my PS-1 project. One was a mobile application I did for an OOPS course project and the second was a website for a DBMS course project. CS students would have done at least one project by the end of 2-2 as part of their coursework and that should be enough along with their PS-1 experience. For students from other branches, I would recommend doing a project. Any simple mobile/web application is fine as long as the student did it on their own and can answer questions on it if asked.

Sources to help in preparation

- Codeforces
- Atcoder
- CSES

Your suggestion to help in the preparation

Being well versed with the topics in the DSA course offered in our college along with some amount of practice should be enough.

Name: Ananya Kumar Das

ID number: 2019A7PS0001H

CGPA: 6.88

Role: Software Developer Intern





Recruitment Procedure:

Round 1: (Online Test)

- 7 Debugging Questions. We had to solve errors in small code blocks. 20 mins were allotted for this.
- 2 Coding Questions: We were given to solve two coding questions based on DSA.
- Work Style Assessment test: There was no time limit set for this, it was a basic assessment of our work ethics and style.
- Logical reasoning: We were given 20 logical reasoning questions.

Round 2: (Interview)

- I had a 1hr interview during which I was asked to solve two DSA questions and dry run them. Most people were asked either two or three questions.
- The first question for me was based on strings.
- The second question was based on Linked lists.
- Both were Leetcode medium to hard problems.

Important CDCs and Electives

DSA helped me get my concepts clear on the various data structures and their implementation.

What are some critical topics/skills essential for the process

Data Structures and Algorithms is the most important topic for both the interview and the coding round. You should have a good understanding of the data structures and be able to explain your approach clearly.

Sources to help in preparation

- Leetcode
- InterviewBit

Your suggestion to help in the preparation

Be confident in the interview and stay calm. Talk about your approach as you formulate the solution. Prepare well so you can come up with efficient solutions or the most optimized solutions for the problems.





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Arcesium

Arcesium India Private Limited

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

CGPA Cut-off: 7.00

Roles: SDE

Selects: 3

Selection Rounds: 4

Stipend: 100,000



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Name: Divit Sheth

ID No: 2019A3PS0353H

CGPA: 8.77

Role: Software Engineer Intern

Recruitment Procedure:

There were 4 rounds of the recruitment procedure which involved 1 online aptitude test, 2 DSA based tests , 1 technical tests , 1 HR interview which went smoothly for me. We were asked about leetcode medium,binary search ,backtracking and tree dfs .

Important CDCs and Electives

The course CS F111 was highly important . High focus on DSA. optional:OOP

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

April 2021. First learned STL, then followed DSA course by Abdul Bari and then practiced leetcode regularly and for last 2 months solved interviewbit

What are some critical topics/skills essential for the process

- 1.Binary Search
- 2.Dynamic Programming
3. Trees

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

Being a phoenix student I didn't have any projects other than my PS-1

Sources to help in preparation

- 1.Leetcode
2. Youtube
- 3.Interviewbit
4. Abdul Bari

Your suggestion to help in the preparation

Don't worry about CS subjects which you haven't completed, in SI they only expect you to be well versed with data structures and algorithms and one PS-1 project shall also be sufficient. Just focus on the data structures like trees, heaps, stack, queues, etc.. and common algorithms such as binary search and sorting one.





Name: Vempati Sharvani Reddy

ID No: 2019A7PS0050H

CGPA: 9.3

Role: Software Developer Intern

Recruitment Procedure:

There were **4** rounds of the interview

1st Round: (Online test):

The online test had MCQs based on general mathematics and OOP concepts, and 2 coding questions of medium level on leetcode. I was asked about basic data structure. I was also asked 3 DSA questions based on trees and graphs and was asked to explain a little bit about the projects on my resume.

2nd Round: It was purely a DSA one (leetcode hard question).

3rd Round: DBMS, OOPS and system design questions

4th Round: HR interview

Important CDCs and Electives

- 1.Data Structures and Algorithms (DSA),
- 2.Object Oriented Programming (OOPS),
- 3.Database Management System (DBMS)

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

I started preparing in the summer break after 2-2. I tried to solve 2-3 questions on interview bit everyday. I found the YouTube playlists by Aditya Verma(Dynamic Programming) really helpful. For OOPS and DBMS I went through GeeksforGeeks top interview questions and slides from lectures. Make sure you're good at ER modeling.

What are some critical topics/skills essential for the process

1.DSA





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- 2.DBMS : ER modeling and SQL queries
- 3.OOPS : Inheritance, Abstract classes

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

- 1.Data analytics project (PS-1)
- 2.OOPS course project
- 3.Pharmacy management system (DBMS course project)

Sources to help in preparation

- 1.Interviewbit
- 2.Leetcode
- 3.GeeksforGeeks

Your suggestion to help in the preparation

Practice DSA (medium and hard questions from leetcode), have a good grasp on object oriented programming and DBMS concepts



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Name: Aryan Saraf
ID No: 2019A7PS0138H
CGPA: 8.88
Role: Software Engineer Intern

Recruitment Procedure:

Online test: 2 coding q + mcqs on cs fundamentals

Interview 1: 3 coding q. 1Q: was a linked list q, 2Q: was a DP q and 3Q: I had to write a method to find the running time of a function. I solved the first 2 and gave some approaches for the third one but the interviewer did not seem satisfied.

Interview 2: standard oop q and some questions related to my projects.

Interview 3: Was asked to design the database schema for Spotify. The interviewer helped along the way. Then I was asked to write a SQL query.

Interview 4: HR, read a bit about what the company does.

Important CDCs and Electives

- 1.DSA
- 2.OOP
- 3.DBMS

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

I started preparing during my PS.

What are some critical topics/skills essential for the process

Data Structures and Algorithms

Sources to help in preparation

- 1.Leetcode
- 2.interviewbit





ARISTA

Arista Networks

Eligibility: B.E. (CS,ECE,EEE,ENI)

CGPA Cut-off: 7

Roles: Software Intern

Selects: 1

Selection Rounds: 3

Stipend: 65,000





Name: Sukrit Kumar
ID: 2019AAPS0231H
CGPA: 9.38
Role: Software Intern

Recruitment Procedure:

1st Round: Online Test- 3 Questions in the online test: 1 Graph related, 1 sliding window, and 1 linked list problem. Solved the first 2 questions as they were relatively easy, and completed 13/15 on the graphs question. 12 people were shortlisted for interviews in total.

2nd Round: 1st Interview Round- First round of interview was done on a shared google doc, asked 2-3 medium-level questions, and was a relatively short round lasting around 30 minutes.

3rd Round: 2nd Interview Round- In the second round I was asked about my interests. Asked to explain any one project of my choice in detail, spent a good amount of time on it. Then asked about how we can shuffle a list like in a music player, and discussed different approaches for the same. We had a rudimentary about how commands on Linux work. Then was asked to design a class to manage a pool of memory that was allocated using malloc and then split this into blocks of smaller sizes and then create functions for accessing a block, deleting and cleaning up after destruction. This round was longer and went on for around 1.5 hrs.

Important CDCs and Electives

ECE so not really CDCs, but electives like DSA, and OOPS might help.

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

Towards mid-July near the end of PS1, Already knew the basics of C++ and STL, started off solving InterviewBit questions and then moved on to LeetCode for more practice.





What are some critical topics/skills essential for the process

1. Understanding of DSA and OOPS concepts is a must.
2. Good communication skills.

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

My projects were ML and unrelated to the role, so I don't think they played a major role.

Sources to help in preparation

InterviewBit, Leetcode, Aditya Verma for DP, GFG. Codeforces questions are also useful for almost all online test rounds.

Your suggestion to help in the preparation

Good C/C++ knowledge is very helpful.





CHALO

Chalo

Eligibility: B.E. (all)

CGPA Cut-off: 0

Roles: Software Development Engineer Intern

Selects: 1

Selection Rounds: 4

Stipend: 30,000





Name: Ollala Nikhil Kumar

ID: 2019A7PS0064H

CGPA: 7.35

Role: SDE Intern

Recruitment Procedure:

1st Round: Coding Test- 4 questions were given to solve in 2 hours. All questions were based on DSA. Good command over competitive coding is a plus. Some concepts asked were Greedy, Graph and DP

2nd Round: Technical Round- 3 questions were asked. The first question was based on simple logic, the second was an application of sliding window and the third can be solved using stack. Towards the end, he asked me to explain one of my projects.

3rd Round: The interviewer went through my resume and asked questions based on my projects. It was mainly a Design round. I was asked to design an online Carrom game. One should have good knowledge of OOPS to clear this round.

4th Round: HR Interview- It was a regular HR round.

Important CDCs and Electives

1. Data Structures and Algorithms
2. Object-Oriented Programming in Java
3. Database Management Systems
4. Software Engineering





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

I started my preparation before my PS 1 started.

What are some critical topics/skills essential for the process

DSA and OOPS are very important. Having good knowledge on your projects is a must. Practice DSA on Leetcode and try to give as many contests as possible on platforms like Codeforces to enhance your problem-solving skills.

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

PS 1 project always helped me in having a good conversation with the interviewer. Apart from that, SE (MERN) and OOPS projects were helpful. It would be better if you can explain your projects with terms used in SE.

Sources to help in preparation

Solve Leetcode questions and give codeforces contests regularly.





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Cisco

Eligibility: B.E. (all)

CGPA Cut-off: 0

Roles: Software Engineering Intern

Selects: 6

Selection Rounds: 5

Stipend: 76,000



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Name: Aagam Shah

ID: 2019A7PS1320H

CGPA: 8.01

Role: Software Engineer - Network/Embedded/Application Development

Recruitment Procedure:

1st Round: Coding round - There was an objective section and a coding section(2 questions).

2nd Round: Technical Round - This round went on for about 1 hour where 2 coding questions (string manipulation, simple pattern printing) and 2 puzzles were asked.

3rd Round: Project Round - The interviewer asked me to explain any one of my projects and later on asked some basic questions on the programming language I had used for the same. This round approximately took 30 minutes

4th Round: This round was unrelated to any CS oriented fundamentals. The interviewer asked very open-ended questions. This round carried on for 20 mins.

5th Round: Final Round/HR Round - The HR manager asked my preference for office location, general questions about the company (products, competitors, etc.), and also about my future plans (Master's Degree). This round ended in 5-10 minutes.

Important CDCs and Electives

DSA, DBMS, OOP are the go-to courses.

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

I started preparing seriously from the beginning of August. I solved easy-to-medium level questions on Leetcode and Interviewbit. Referred to websites like GFG, tutorialspoint, etc., for refreshing concepts(OOP, DBMS, etc).

What are some critical topics/skills essential for the process

One critical skill is to develop a good enough (efficient) algorithm to solve a problem. In case one is stuck, thinking in terms of brute force first and then making it efficient, generally helps.





Name: Abhinav Talesra

CGPA: 9.1

Role: Software Engineer - Network/Embedded/Application Development

Recruitment Procedure:

1st Round: Coding round - There was an objective section and a coding section. The objective questions were mainly from CN and OOPS.

2nd Round: This round went on for about 1 hour, where 2 coding questions related to LinkedList were asked, and I was asked to write the code from scratch and then run it. Some questions were also asked regarding the projects mentioned and the PS-1 internship.

3rd Round: The interviewer asked me about my project and later asked about the PS-1 internship. This round approximately took 30 minutes. And also asked general behavioral and situation - based questions.

4th Round: The interviewer asked 1 coding question related to LinkedList and asked very general questions. This round carried on for about 20 mins.

5th Round: The HR manager asked about my preference for office location, general questions about the company (products, competitors, etc.), and also about my future plans. This round ended in 5 minutes.

Important CDCs and Electives

DSA, OOP, CN, DBMS

What are some critical topics/skills essential for the process

One of the most essential skills is developing an efficient algorithm to solve the problem. Generally, thinking initially in terms of brute force and then going on to make it more and more efficient works. And to continuously converse with the interviewer and ask about the edge cases.





Name: Aneesh Rao M R

ID: 2019A7PS0141H

CGPA: 9.01

Role: SDE Intern

Recruitment Procedure:

1st Round: Coding Round - There was an objective section and a coding section. The objective questions were mainly from CN and Oops.

2nd Round: The interviewer asked me about the projects listed on my resume. After discussing them for a few minutes, he asked me around four basic questions on linked list

3rd Round: The interviewer asked me about my ambitions - which area I wanted to enter (hardware/software), what my favorite subjects were, where I saw myself in the future etc.

4th Round: I was given a scenario and asked to think aloud. What solutions came to my mind? What would I do if they didn't work? How would I implement them? I don't recall the scenario exactly, but it was something regarding a major server crashing overnight. Things like what sort of preventive measures will I implement in the future? How would I find the root cause of the problem? And so on.

5th Round: The final round was purely HR asking me why I wanted to work at Cisco, and my job location preference.

Important CDCs and Electives

The main CDCs are DSA, DBMS, and OOPS.





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

I started preparing about 1 / 1.5 months in advance. Studied all the basic data structures and learned all the beginner algorithms. Then, I just went through GFG, searching for common and important questions, trying to solve them, looking at the efficient solution, and trying to understand the thinking process behind those solutions. That's about it.

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

Nothing really. Just had to give time to the preparation.

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

The major course projects - OOPS, DBMS. One DEL project in the Computer Graphics course and my PS-1 internship.

Sources to help in preparation

GeeksForGeeks, Leetcode, YouTube (Abdul Bari).

Your suggestion to help in the preparation

The coding round was fairly simple. A decent programming acumen is enough. Just be confident and true to yourself in the interviews, and you'll make it through.





Name: Samarth Kumar Jain

ID: 2019A7PS0179H

CGPA: 9.07

Role: Technical Undergraduate

Recruitment Procedure:

1st Round: Online Test - 3 easy to medium-level questions

2nd Round: Interview round 1: 2 DSA questions + Project Discussion

3rd Round: Interview round 2: OOP + DBMS questions + Project Discussion

4th Round: Interview round 3: OOP/DBMS/OS/Computer Network questions + Brain teasers + Behavioral questions

5th Round: HR round: Behavioral questions + Project interests + Location preference

Important CDCs and Electives

DSA, DBMS, OOP, OS, CN

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

I Started preparing after PS-1, stopped by 3-1 midterms, and started again in the winter break. Practice problems from interviewbit. Even easy-level problems can teach a lot. Read OOP/DBMS/OS/CN interview questions from geeksforgeeks.

What are some critical topics/skills essential for the process

OOP is really critical for technical interviews. It only has a few questions you need to prepare for so it won't take much time, and almost every interview will have a question from it.

Sources to help in preparation

Interviewbit, GFG, codeforces, leetcode.





Name: Tejas Tripathi

ID: 2019AAPS0059H

CGPA: 8.23

Role: Technical Undergraduate

Recruitment Procedure:

1st Round: Coding round - 2 basic coding questions and 30 MCQ from topics like OOP, OS, CN.

2nd Round: Interview - The interview started with a basic introduction followed by 2 coding questions. I had to code the questions on my notepad while sharing my screen, so I would recommend practicing the same. Then I was asked some questions on OS but I told them that OS will be done in 3-1, so I was asked questions on OOP and DBMS.

3rd Round: In this round, questions were mostly based on the projects I had mentioned on my resume. You should have complete knowledge of whatever you have mentioned on your resume. I was also asked to explain my PS-I project.

4th Round: In this round I was asked about my area of interest and some behavioral questions (like how did you deal with challenges in the project, etc). They asked me why I wanted to join Cisco and what are the biggest competitors to Cisco according to me.

5th Round: It was the HR round which lasted only 5 min. I was just asked about my preferred location.

Important CDCs and Electives

DSA, OOPS, DBMS

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

During PS1, I started preparing by solving questions on InterviewBit topic-wise every week. Solving company wise questions on GFG is very helpful as most of the companies ask questions very similar to past year questions. About 1-2 weeks before I started revising OOP, DBMS, and DSA concepts along with my projects.

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

Basics of DSA and OOPS. Complete understanding of the projects mentioned on the resume.





Sources to help in preparation

InterviewBit to solve problems related to all the topics.

GFG for company-wise questions

Leetcode for additional practice.

GFGs past interview experience to prepare for the interview rounds.

Your suggestion to help in the preparation

Check out previous year's 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 thoroughly answer something.





Name: Muhammed Bilal

ID: 2019A7PS0149H

CGPA: 7.2

Role: SDE Intern

Recruitment Procedure:

1st Round: Online Coding Round - 2 DSA questions medium and medium-hard. I solved the 1st question and about 75% of the 2nd. And MCQs related to OOPS, DBMS and CN. Around 10 students were shortlisted.

2nd Round: Interview - This was a Technical Interview. After introduction, I was asked 2 to 3 easy DSA questions about trees and different traversals and then discussed the projects.

3rd Round: Again technical, but a senior took it. After the intro and light project discussion, he asked me my favorite subject among CDC's. I told him DSA, and then he asked a question with modification in merge sort. Told me to code from scratch. I started and discussed the approach along with writing the code. And he stopped me after 15-20 minutes. Then 2-3 OOPS DBMS questions. This was about 30-35 minutes.

4th Round: This was somewhat HR also. Intro then discussion around my projects. Then he gave me a real life problem related to maps and paths, and we discussed them. Mainly this was around Trie data structures. I didn't arrive at a proper solution, but I think he just wanted to discuss it. This was about 45- 50 minutes long.

5th Round: About 3-4 mins. He just asked the preferences for cities and confirmed the stipend.

Important CDCs and Electives

OOPS and DBMS. They asked about Networks, but I told them it had not been covered.





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

I already did some competitive coding from 2-2 then during my PS-1 started doing interviewbit and leetcode. Also, try your best before skipping to the solution. Regularly participating in contests on leetcode and codeforces also helped me a lot. For core questions I just prepared before the interviews.

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

DSA is clearly the most important topic, along with a clear understanding of some data structures like heaps and maps. And a little knowledge about OOPS and DBMS is sufficient. Also be thorough with everything you put in your resume with some topics to discuss in each of your projects.

Sources to help in preparation

InterviewBit and Leetcode for DSA.

Competitive coding also helps a lot.

For OPPS and DBMS I used GFG and interviewbit





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CRISIL

An **S&P Global** Company

CRISIL Ltd.

Eligibility: B.E. (all)

CGPA Cut-off: 0

Roles: Financial Research Analyst

Selects:

Selection Rounds:

Stipend: 22,000



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Name: Sameer Bethanabhotla
ID: 2019A4PS0797H
CGPA: 9.06
Role: Financial Research Analyst

Recruitment Procedure:

1st Round: Resume Shortlisting

2nd Round: Aptitude and Financial test: In this round, there were sections such as English, Quantitative, Qualitative, Finance, and Subjective. In Finance, there were questions based on concepts taught in DRM, FoFA, FM, SAPM and also on general economics.

3rd Round: Technical Interview-Round(1 and 2): In this round, the questions were based on the projects that were on the resume and general questions on basics of python which is required for finance. The interviewer also asked to solve some puzzles and logical reasoning questions. Some finance topics such as ratio analysis and valuation concepts were also touched upon in the interview.

4th Round: HR Interview-Round(3): General HR questions were asked in this round.

Important CDCs and Electives

FM, SAPM, DRM and FoFA

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

Preparation of basic concepts would be sufficient.

What are some critical topics/skills essential for the process

All the basics of the finance courses are a must and some python libraries which are related to Finance.





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

All the projects which are given in Finance courses should be taken as the utmost priority and will be helpful in SI and placements

Sources to help in preparation

Investopedia, Corporate Finance Institute, Geeks for Geeks.



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Name: Shrishti Khatod

ID: 2019A5PS1180H

CGPA: 8.90

Role: Financial Research Analyst

Recruitment Procedure:

1st Round: Resume Shortlisting

2nd Round: Aptitude and Financial test: Basic questions related to quant, English grammar and logical reasoning were asked in the aptitude test. The finance test had numerical questions related to FCFF, financial ratios, value of the firm, beta of the firm and a few theoretical questions related to the time value of money, accounting, and financial ratios were asked.

3rd Round: Technical Interview-Round(1): The interview started with the basic question of tell me about yourself followed by questions related to the projects I did in the minor in finance courses (FOFA, DRM, SAPM, BAV and FM), basically you had to explain what the project was and how you did the project and then they would counter question on whatever you say. There were questions related to cash flow statement, profit and loss statement, your favourite ratio and why, Markowitz portfolio theory, EPS and other ratios, regression and basic questions related to EBITDA

4th Round: Technical + HR Interview-Round(2): Questions started with introduce yourself, followed by why do you want to do finance when you are pursuing B.Pharm, which is your favourite stock and why, how to do financial analysis, how to predict the future of the market, time value of money concept, and a few questions on financial ratios, logic questions (how to cut the cake in 8 pieces with only 3 cuts, and something around number of steps in a 11 storey building)

5th Round: HR interview-Round(3): Introduction, why do you want to be part of CRISIL, why do you want to pursue finance, what are your future aspirations, a little talk about your family, why B.Pharm and then a switch to finance, where do you see yourself in the next five years.





Important CDCs and Electives

Fundamentals of Finance and accounting, Derivatives and risk management, Security analysis and portfolio management, financial management and business analysis and valuation are the five minor in finance courses that helped in the finance test and in the interview rounds.

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

I honestly did not start preparing beforehand. I just brushed up all the concepts taught in the five minor in finance courses from my notes and formula sheets/short important notes I had made a day before for the finance test and the interview. I also looked at a few possible interview questions for financial research analyst role on the net.

What are some critical topics/skills essential for the process

It is very necessary that you portray that your basics of finance are very clear. Talk about the financial statements, the ratios you used and why you used them in your project in a very clear manner. It is very important that you are very confident throughout the interview process irrespective of whether you know a particular answer or not. A good introduction about yourself also makes a great impact, so make sure you give a detailed yet short introduction. Make sure you ask a question when they ask if you have any questions for us since it shows your curiosity.

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

The assignments that are part of the finance courses can be shown as projects we did and are very helpful since most of the interview questions revolve around how you did them and then counter questions on what you say.

Sources to help in preparation

Finance courses notes and slides, and general aptitude questions available on net.

Your suggestion to help in the preparation

Make sure you brush up all that was taught in the finance courses, have thorough knowledge of the projects you put up in your resume, be confident throughout the interview and you will be good to go.

Name: Vedaang Raparathi





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ID: 2019A8PS1259H

CGPA: 8.27

Role: Fundamental Research Intern

Recruitment Procedure:

1st	Round:	Technical	Round
2nd Round: General Round			
3rd Round: HR round			

Important CDCs and Electives

DRM, SAPM, FRAM, FM and BAV

What are some critical topics/skills essential for the process

Financial Modeling and Statistics. Python skills are a plus.

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

Finance Minor Course Projects





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DE Shaw

Eligibility : CSE,ECE,EEE,ENI,Msc.Math

CGPA Cut-off: 7.00 for CSE and 8.00 for ECE,EEE,ENI

Roles: Technology Developer Intern

Selects: 1

Selection Rounds: 3

Stipend: 150000 per month



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Name: Aditya Chopra

ID: 2019A7PS0178H

CGPA: 9.68

Role: Technology Developer Intern

Recruitment Procedure:

1st Round: Coding Test - Graph and DP Based. Slightly tricky problems, but nothing impossible.

2nd Round: Interview-1 : Algorithm and Data structures based problems. Based on Trees, HashMaps, HashSets, Balanced BSTs and Doubly Linked Lists.

3rd Round: Interview-2 : One logic based question that didn't involve very heavy data-structures. The round veered off into random tangents when I mentioned my projects. Questions from vectorization and GPU acceleration in python to questions about Virtual DOM and hydration in React.

Important CDCs and Electives

DBS and DSA most of all. OOPs might be helpful, but depends on the project work that you do.

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

Started at the beginning of the summer break. Made a list of ideas to cover in the time that I had, and started with InterviewBit. Tried to practice as much as possible from there, and finished off with Leetcode Medium/Hard in the last few weeks. Regularly gave Codeforces contests during the entire time.

What are some critical topics/skills essential for the process

Graphs and DP for the tests. General understanding of the projects, and good fundamental knowledge of the tech stack that you are using.





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

I worked on several Full-Stack web applications with varying levels of difficulties that involved a wide range of technologies, concepts and services. I had also mentioned my PS project that involved Deep Reinforcement Learning. At the end of the day, it does not matter how many projects that were taken up but how well you know about all of them.

Sources to help in preparation

1. Interviewbit
2. Leetcode
3. Codeforces
4. CP-algorithm

Your suggestion to help in the preparation

To be honest, the interview process was extremely random and not everyone was asked about their projects or DSA in the interviews at length. DP and Graphs, and a sound understanding of basics will most probably help clear the Coding Test.





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DevRev

DevRev

Eligibility: B.E. Computer Science

CGPA Cut-off: 0

Roles: Member of Technical Staff

Selects: 3

Selection Rounds: 3

Stipend: 1,00,000



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Name: Nandan H R

ID: 2019A7PS0164H

CGPA: 9.69

Role: Member of Technical Staff

Recruitment Procedure:

1st Round: Online test

The online test required 12 MCQs and four coding questions to be answered in 2 hours on CodeSignal. The MCQs were simple questions based on OOPS, DBMS, etc. The four coding questions were mainly implementation based.

2nd Round: Interview Round 1 (Technical)

I was first asked to solve a simple coding question with a greedy solution. Then the interviewer asked about projects I had worked on. The rest of the interview was mainly about DBMS. Questions on topics like transactions and recovery were also requested. One of the questions asked was, given a real-world scenario, what kind of database schema would you design for that use case. Overall the interview was less question-answer based and very conversational.

3rd Round: Interview Round 2 (HR)

This was a typical HR round (called culture fit round) where I was asked questions like why I would like to join DevRev, my strengths, weaknesses, etc. The HR round was very casual, and everyone who got through to HR got selected for the SI.

Important CDCs and Electives

DSA, DBMS and OOPS





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

I was familiar with competitive coding from the first year and studied the other topics as part of my coursework.

What are some critical topics/skills essential for the process

- Comfortable with at least one programming language
- Decent problem-solving ability
- Good knowledge of DBMS and OOPS
- Communicating your approach and thoughts well

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

My DBMS course project (which was a web development project) helped with the selection. I was mainly quizzed on that during the interview.

Sources to help in preparation

- Leetcode
- GeeksForGeeks archives for company-specific questions
- Slides and lectures for DBMS and OOPS of Gururaj sir

Your suggestion to help in the preparation

- Solve a lot of coding questions and start as soon as possible.
- If you mention something in the interview or resume, ensure you know it properly because interviewers tend to ask follow-up questions about them. So one helpful interview tactic is to mention stuff that you are very comfortable with while answering so that they ask more questions based on that.





- While solving coding questions in the interview, make sure you ask for clarifications and try to speak your thoughts as much as possible.
- The importance of theoretical concepts in OOPS and DBMS cannot be stressed enough. For the most part, whatever is taught in the coursework is enough. Make sure to have a strong understanding of all the major topics in these subjects.
- For HR rounds and interviews, it is better to prepare answers for typical questions like why you want to join this company, etc. Going through some sample HR questions and answers on the internet helps greatly.





Name: Radhika Sigtia

ID: 2019A7PS0094H

CGPA: 8.539

Role: Member of Technical Staff

Recruitment Procedure:

1st Round: Coding round- 3 DSA questions were asked, which included graphs, trees, and arrays. It also had 10 MCQ questions on basic concepts of DSA and OOP.

2nd Round: Technical interview- 1 coding question related to data structures and linked lists were asked. Some basic concepts of OOP were invited, along with questions on the projects that I had done.

3rd Round: HR interview- General questions were asked about pressure handling and past situations. Also, questions were asked about my resume and my projects.

Important CDCs and Electives

DSA and OOPS

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

I cleared my 2-2 (because we had a clear option), and I spent three months on the preparation. I started by revising OOP concepts and learning DSA from geeks for geeks. Then I started doing interviewbit along with the theory of DSA.

What are some critical topics/skills essential for the process

Graphs, Trees and Array

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

Excluding our course projects in DBMS and OOP, I did an informal project based on Web Development related to IIT Delhi, which stood out in my resume..

Sources to help in preparation

Interviewbit, DSA assignments





Name: Vikas Sheoran

ID: 2018B3A70847H

CGPA: 8.43

Role: Member of Technical Staff

Recruitment Procedure:

1st Round: Online Coding Round – It was a 2-hour round on a code signal platform, and we were given two competitive coding problems, 2 class design problems, and 12 MCQs (cs subjects) to solve.

CC problems :

- Given parameters like arrival time, burst time, priority, etc., of processes, you must do process scheduling and return order of completion.
- Given dimensions of n cubical boxes, you have to figure out whether you can fit one inside another recursively such that only one box is left in the end, provided rotations are allowed).

Design Problems: Functionalities are required, and the interface was defined. You have to implement that.

MCQ Problems: 12 problems, all related to CS subjects, mainly DSA and DBMS.

2nd Round: Technical Round – Introducing each other ~ 5 mins, Research Paper + Project discussion ~ 10 mins. 2 DSA problems ~ 25 mins. ~5 mins for my questions.

3rd Round: HR Round – It was quite easy. Typical HR questions were asked, which you can google.





Important CDCs and Electives

DBMS was helpful. DSA was more or less theoretical, and I wouldn't suggest you rely on that instead to solve problems.

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

I started preparing in the 2nd week of May. Most of the time was spent solving problems on Leetcode and googling wherever stuck.

What are some critical topics/skills essential for the process

Algorithmic problem solving ,
Communicating thoughts to the interviewer

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

I had three projects on my resume – a desktop application, an android app, and an ML project. Though, I believe the publication(deep-learning) helped me get shortlisted as it's an AI company.

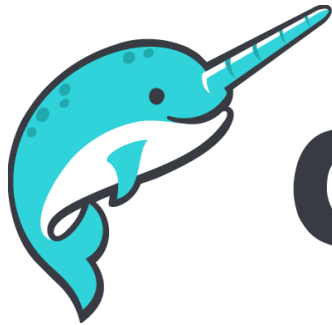
Sources to help in preparation

Leetcode.com : /explore, /problemset, /assessment (premium)
YouTube Channels: Pepcoding, Aditya Verma, edureka!, Gate Smashers
Articles : cp-algorithms.com (quality), geeksforgeeks.org (quantity)
Books : cses.fi/book , cpbook.net
Google search





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dremio

Dremio

Eligibility: B.E Computer Science

CGPA Cut-off: None

Roles: SDE intern

Selects: 2

Selection Rounds: 2

Stipend: 1,00,000



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Name: Anjel Patel

ID: 2019A7PS0126H

CGPA: 8.06

Role: Software Development intern

Recruitment Procedure:

1st Round: Technical interview - The first round consisted of three easy Data Structures and Algorithms questions similar to any other coding interview

2nd Round: Technical Interview- Second round questions were a little more challenging, with the interviewer expecting a more complex solution.

Important CDCs and Electives

DSA and DBS, with DBS being a unique one due to the nature of the company.

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

I started my preparations in the first week of July and maintained consistency till September, after which academics took over most of my time.

I practiced every day for about 4 hours, wherein I tried to solve at least three questions (Medium/Hard). It was okay sometimes not to reach the target, but getting back on track the next day was essential.

What are some critical topics/skills essential for the process

Knowledge of all essential DSA topics (even complexity analysis) is necessary. There aren't many distinct topics, so this isn't as hard as it sounds.

A rough idea of DBS basics (Dremio specific) will also be helpful, although not mandatory.





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

Working on OOPS, SE, and DBS projects which were entirely Dev-based, gave an upper edge during the interview conversation, although they probably weren't a deciding factor. It certainly did not help with the coding question.

Sources to help in preparation

Interview Bit is an excellent source. Leetcode is also suitable for hard questions or to explore after completing Interview Bit. .

Your suggestion to help in the preparation

Focus on communication skills. It is crucial to explain your approach as you solve a problem. The questions themselves aren't going to be that difficult. The interviewer judges your thought process, so convey it effectively.





Name: Sahaj Gupta

ID: 2019A7PS0148H

CGPA: 8.00

Role: Software Development intern

Recruitment Procedure:

1st Round: Technical interview - The first round consisted of simple questions on DSA, DBMS, OOPS, and OS

2nd Round: Technical Interview- Similar to the first round.

Important CDCs and Electives

DSA, DBMS, OOPS and OS

What are some critical topics/skills essential for the process

Data Structures and Algorithms





Exxonmobil

Eligibility: B.E. Chem or Mech

CGPA Cut-off: >7

Roles: Process Design

Selects: 2

Selection Rounds: 4

Stipend: 30,000





Name: Sufiyan Siddiqui

ID number: 2019A1PS1026H

CGPA: 8.11

Role: Process Designer

Recruitment Procedure:

1st Round: Resume Shortlisting

2nd Round: Pre-placement talk

questions regarding our opinions on public matters privacy data security and workplace management were asked.

3rd Round: Group discussion

4th Round: Technical interview

In the technical interview, questions from a core chemical engineering course of our choice were asked & the questions were very basic and mostly theoretical.

Important CDCs and Electives

Separation processes, fluid dynamics, heat transfer

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

2 days before the interview referred to NPTEL slides on fluid mechanics

What are some critical topics/skills essential for the process

In fluid mechanics, types of flows based on Reynolds number, principles of equipment like pumps, venturimeter, etc, Bernoulli's equation and its effects in daily life, etc Presentation skills, communication skills, confidence.

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

PS1 project at NCL on process controlling

Published a few papers before the SI so that was an edge





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Sources to help in preparation

NPTEL, Fox, and McDonald

Your suggestion to help in the preparation

It's a very easy-go process and also easy to crack. Presentation and communication skills are a very very important tick mark that the hirers do so make sure you don't falter on that.



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GE Healthcare

G.E. Healthcare

Eligibility: CS/Phoenix Branches

CGPA Cut-off: 7

Roles: SDE

Selects: 4

Selection Rounds: 4

Stipend: 30,000



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Name: Shashwat Srivastava

ID number: 2019AAPS0267H

CGPA: 8.05

Role: SDE Intern

Recruitment Procedure:

1st Round: A coding round with two coding questions and twenty MCQs. The coding questions were Leetcode medium level, and the MCQs were based on core CS topics like OS and DBMS.

2nd Round: Pymetrics Assessment- Search on google about it. Nothing as such to prepare.

3rd Round: A technical interview. The interviewer asked one cc question and the various approaches to optimize time complexity. It was followed by a discussion about my projects and some questions on React.js.

4th Round: An HR Interview. The interviewer asked questions about the projects I had on my resume and my motivation to join the company.

Important CDCs and Electives

DSA, OOPS, DBMS, OS , Computer Networks

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

I started preparing in the middle of 2-2. I mostly solved the interview bit while watching the questions I didn't understand on YouTube. I also solved Geeks For Geeks must-do 200 lists in the final month.

What are some critical topics/skills essential for the process

1. Graphs and Dynamic programming.
2. Speaking confidently is a must in the interviews. You might get by with some wrong answers if you are confident enough.





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

I mainly specialize in web Development so all of my projects were about the same. They were mostly from freelancing gigs I did in my second year. It helped immensely as the technical interview was mostly based on my projects and how much knowledge I had about them.

Sources to help in preparation

Interview Bit, Leetcode, and Geeks for Geeks.





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Gojek

Eligibility: B.E. (all)

CGPA Cut-off: 7.5

Roles: SDE

Selects: 12

Selection Rounds: 2

Stipend: 1,00,000



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Name: Nihar Bansal

ID number: 2019A2PS1405H

CGPA: 8.24

Role: Software Development Intern

Recruitment Procedure:

1st Round: Online Test - 13 x MCQs - CS Fundamentals - DSA, DAA, OOP, DBMS, Networks

2nd Round: Resume Based, Questions on Projects, concepts, tech used
I worked on the MQTT protocol from my PS-1. The interviewer asked questions on this in depth.

Asked me about core concepts of Android Development (Used this for one of my projects) - MVC, MVP, MVVM, etc.

About software development methodologies like agile, functional programming, OOP, etc.

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

Started preparing since May '21

What are some critical topics/skills essential for the process

Development, Deep understanding of the tech used in a project, DSA, OOP, Programming Methodologies.

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

Selenium, adb-shell, Network Programming, Android Development, Web Development

Sources to help in preparation

Abdul Bari DSA, GFG articles, Love Babbar Final 450

Your suggestion to help in the preparation

Get some good projects on your resume and have a core understanding of the tech stack used. Your development skills should be good enough for the interview.





Name: Animesh Shukla

ID number: 2019AAPS0263H

CGPA: 8.97

Role: Software Engineer Intern

Recruitment Procedure:

1st Round: In Online Test, 3 DSA questions were asked that seemed GFG/leetcode easy to medium level to me. Apart from DSA questions, the test included MCQS that covered OOPS,DBMS,OS, and some logical reasoning questions.

2nd Round: Interview

Important CDCs and Electives

DSA. My branch is ECE so I had to study OOPS, OS, DBMS etc from online resources. I would recommend GeeksForGeeks as a good resource.

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

I started DSA in May but had some week-long breaks till July. After July, I became quite regular. I started from Love Babbar sheet and GFG, and gave some contests in Codeforces. I would highly recommend InterviewBit for revision.

What are some critical topics/skills essential for the process

Being able to solve LeetCode/GFG Easy to Medium level questions quickly is good enough to solve DSA questions in the test. Some intro to OS,DBMS and OOPS is enough to be able to solve MCQs in online tests but I would recommend studying them properly as we were asked rigorously from these courses during the interview.

A thorough understanding of projects mentioned in the resume is a must as the interviewer focused on them and asked a lot of questions from them as well.





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

I had 3 projects on my resume at that time. 1 from the PS1 that is of Data Science. The other two were Android Apps that I made using Android Studio.

Sources to help in preparation

Love Babbar DSA sheet and GFG for solving questions. GFG for Theoretical subjects(some youtube channels will also help in the preparation.





Name: Tushar Tiwari

ID number: 2019A8PS1332H

CGPA: 7.56

Role: Software Engineer Intern

Recruitment Procedure:

1st Round: Coding round-There were 3 questions, one involving binary search, one involving number theory and one involving string hashing. I did 2.5 questions in the coding round. Everybody who did 2 questions were shortlisted for interviews

2nd Round: Interview - 3 Coding questions were asked. One from stacks, one from BST and last one was from Graphs.

Important CDCs and Electives

1)OOPS

2)OS

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

I finished an online course on dsa by the end of my 2-1 semester and spent my 2-2 revising concepts of dsa . I started solving coding questions from summer vacation onwards during ps-1.

What are some critical topics/skills essential for the process

Data structures and Algorithms

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

I worked on a simple project involving graph algorithms.





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Sources to help in preparation

- 1)Codeforces
- 2)Leetcode
- 3)Interviewbit

Your suggestion to help in the preparation

Focus mainly on coding and work on some simple projects to add value to your resume.



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Name: Vineet Venkatesh

ID number: 2019A7PS0043H

CGPA: 9.01

Role: Software Engineer Intern

Recruitment Procedure:

1st Round: Online Test- The coding round had 3 questions which were of Leetcode Medium level. While none of them involved Graphs or Trees, the brute force solutions weren't satisfying all the test cases and optimizations had to be made. I was able to solve 2.5 questions.

2nd Round: Interview round- The Interview round was for 1 hour exactly. It started with me introducing myself. From there, he proceeded to ask me about my projects, one by one. He was mainly interested to know what technology I used for different projects, what problems they solved, what problems I faced while doing them, and about improvements I could make to them. Then, he asked me a few CS related questions from OOP and DBMS. He asked me my favourite course, to which I answered DBMS (This is a common question, and it is good to prepare 1-2 topics very thoroughly in case they ask this). Then he asked many questions from DBMS including ACID properties, SQL vs NoSQL, and a few other questions. Each answer was followed by follow-up questions based on my answer, until I got stuck or arrived at a point he was satisfied with. Finally, because I had mentioned that I was doing a DS minor, he asked me if my priority was DS or SDE, to which I answered SDE. The interview ended after that.

Important CDCs and Electives

DSA was of course very important for the coding test. OOP and DBMS were important for the Interview round. Additionally, I was doing the Software Engineering course at that time, which was helpful as well.

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

I started my preparation fairly late, around July. I was underprepared for most of the companies that came early on, and got shortlisted for my first interview round for any company only in September. By then, only very few companies were left for the first semester, so I stopped my preparation to focus on courses. I restarted preparation in





my 3-2 and by the time Gojek came, which was in February, I felt I was adequately prepared.

Doing questions from LeetCode and Interviewbit, was the way I prepared. It is important to cover all important topics from DSA, and do a wide variety of questions.

What are some critical topics/skills essential for the process

DSA topics like trees, graphs, DP, and implementing these and other data structures quickly using C++ STL is very important. Problem-solving and applying these data structures correctly is crucial and something that only comes with practice.

You should also know basic concepts from CS topics like OOP and DBMS.

Additionally, be very confident with everything you have written on your resume.

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

I had done an informal project in the previous semester under a professor, on which I was asked extensively during my interview round. My work was based on Android Development and System Design. The work we had done had also got published in a conference, so the Interviewer was pretty impressed.

Other course project like my OOP, DBMS and SE project were also helpful.

Sources to help in preparation

Leetcode and Interviewbit for regular practice of coding and problem solving. Before each company's coding test, going through the archives on GeeksForGeeks and the SI chronicles provided by the PU is very helpful. There are many good resources available on youtube for everything, including DSA, OOP, DBMS, mock interviews, SI experiences of previous interns from different colleges, etc.

Your suggestion to help in the preparation

From what I understood after speaking to others who had given the interview, Gojek was not asking anything related to DSA in the interview rounds for students in CS. Non CS students had a couple of DSA questions as well.

It is very important to be thorough with everything you have mentioned on your resume. He covered everything in the interview, including my PS1, in which I had done nothing useful but still mentioned it.

Be confident while speaking and answering. If you don't know something, it is better to





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tell them you don't know rather than answering incorrectly.
Also as a general advice, if you have not started dsa practice, start now.

Name: Gaurav Dash
ID number: 2019AAPS0274H
CGPA: 9.27
Role: Software Engineer Intern



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Recruitment Procedure:

1st Round: • Online Test

- The questions asked in the online test are medium to hard level DSA and computer science concepts. There were three coding questions and a few objective questions from DBMS, OOP, and OS.
- You have to get at least 2 out of 3 coding questions correct for round 2. The coding questions were majorly from topics like DP, stack, and strings.

2nd Round: Interview

- For us, it was only one round of interviews. The interview was 1.5 hours long for me with a super chill interviewer. We started with a basic introduction of ourselves and our academic backgrounds. Then he enquired about my technical skills i.e. the tech stack I normally prefer and the level of familiarity I have with them.
- We then jumped to the DSA question solving. The interviewer started with an easy level question. He further asked me how to optimize it more. At the end I was able to explain to him the most efficient approach. Then finally he asked me to code it and run on some basic test cases.
- The next question he asked was a medium level question on arrays of appearance. I started with a brute force approach and optimised it further while explaining. He kept on questioning me about the reasons for choosing all the data structures which I had to explain. After that he asked me to code it and run some test cases. He also made some modifications in the question to check if I can optimise it further.
- After discussion on questions, we shifted to discussion on basic Computer Science concepts like OOP, OS, DBMS etc. Finally, we shifted our discussion to projects and new trends in the field.

Important CDCs and Electives

OOP, OS and DBMS are a must. Being in phoenix I was not able to cover any by my interviews but If one gets a chance then must definitely complete these courses

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

I started preparing seriously just after the compe.

What are some critical topics/skills essential for the process

DSA (DP, Stack, Trees etc), OOP, OS, DBMS.





If more into development then familiarity with all mentioned tech stack is a must.

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

I have been into development from my first year and my experience majorly lies in web development. All the full stack projects and freelance that I was able to pull off helped me a lot.

Sources to help in preparation

Leetcode, Interviewbit (Specifically just before the interviews), Hackerrank

Your suggestion to help in the preparation

The interviewers at Gojek are super chill. They mainly focus on your developmental skills and problem-solving approach. So, If you are able to explain your approach well then you are good to go.

All the best :)

Name: Tharun Reddy

ID number: 2019A7PS0190H

CGPA: 8.1

Role: Data engineer Intern

Recruitment Procedure:

1st Round: 3 coding questions were asked in the online test of which 2 were easy and one was medium(I could not solve it completely 6/13 test cases passed)





2nd Round: There was only one interview round where he went through my resume, picked up my oop project and asked about it for 10 min ,then he went into OOP for 30 min at the end he touched upon DBMS as well.

Important CDCs and Electives

OOPS,DSA,DBMS

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

I started after my ps-1 but I stopped once 3-1 has started and continued after 3-1 ended

What are some critical topics/skills essential for the process

Keep practicing DSA even after 3-1 starts just decrease the frequency if you are busy will save a lot of time when compared to starting again from scratch in 3-2

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

Projects on android development, web development will surely rise a discussion so if you write them be through with them.

Your suggestion to help in the preparation

It's okay if you are not able to solve all the questions in the coding round. Just keep calm and submit whatever you can do in those 1/1.5 hours. Just don't quit if you see a question you are not familiar with.

Name: Vinay Verma

ID number: 2019AAPS1335H

CGPA: 8.19

Role: Data Engineering

Recruitment Procedure:

1st Round: The online coding round had 3 coding problems and a bunch of MCQs based on DSA/OS/OOPs. 2 out of 3 were Leetcode easy-medium-ish while 1 was medium-hard-ish. One should have enough practice of DSA to recognise the underlying pattern/crack to these problems because brute force will pass only a few test cases.





2nd Round: The interview for some of us was very brief as compared to others, they might ask you a coding problem, they might not, but the interviewer would still ask the right questions/ pick up relevant discussions to get an exhaustive analysis of your knowledge and skill level. For eg. In PS1 we had worked with search engines - so the interviewer asked what kind of data structure would you use to write a search engine from scratch and explain the additional functionalities. The interviewer for me was super friendly and helpful, and it was more of a brainstorming/discussion than an interrogation. The interview lasted for around 45 mins.

Important CDCs and Electives

I couldn't do any relevant course before the SI drive, and this should not affect your candidature. Be sure that you are done with atleast DSA. By that I mean you should know what Data Structures and Algorithms can solve what pattern of problems.

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

I started practising the easiest problems on Codeforces during 2-2. After 60-70 problems I realised I wasn't making any progress, which indicated that I must learn DSA, so I jumped to leetcode. I took lite whole of 2-2, PS1 and 3-1 and strictly focused on DSA (and a lil development). Cleared a bunch of coding rounds for other companies but didn't quite have a complete package to offer in the interview, so I gave a month to other stuff- did the Angela Yu full stack dev Udemy course, the Postman API program etc. Having done these, I had some latest technologies in my hand to discuss with the interviewer - this makes a lot of impact in an interview.

What are some critical topics/skills essential for the process

CP/ DSA for coding round is a must. For interviews also interviewer may pick up a discussion on the use cases and applications of data structures and algorithms. You should also have decent knowledge of some latest techs to talk about in the interview. For me this was React/Postman/APIs. Also you should be able to present each thing on your resume clearly - no bluffing here.





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

I had projects on MERN stack and RestAPIs. When it comes to internships, I had worked with data scraping and search engines in PS1 and had another training internship based on Java EE tools.

Sources to help in preparation

Use leetcode to the fullest - specially the discussion section. You will find amazing templates/guides/problem lists for topics like binary search, DP, graphs which will help you recognise patterns and interrelate problems. Interviewbit also has standard problems to help you practise topic wise.

Your suggestion to help in the preparation

Get a person/group to practise DSA with, discuss progress and don't take a day off. Solve a lot of DSA problems, keep your resume clean and (IMPORTANT) stay connected to seniors for mock interviews/ mentorship. Reach out to atleast one senior - they'll be more than happy to help you, hit me up if you will. Know that there are a lot of people also preparing for SIs, the competition should keep you going.

Name: Akshat Goyal

ID number: 2018B3A70864H

CGPA: 8.35

Role: Product Engineer





Recruitment Procedure:

Interview was mostly development profile oriented. They asked me about my previous projects and how much I am familiar with development tools. 1 DSA implementation question and a puzzle.

Coding round had 3 DSA questions and the rest were the objective type.

Important CDCs and Electives

I strongly suggest revising OOPS DBS And DSA for preparation and have atleast one full stack project in your resume.

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

I was from CS so had the added advantage of covering CS fundamentals in the CDCs besides that I started practicing DSA 1 year prior.

What are some critical topics/skills essential for the process

Interview was very conversation driven and the interviewer helped wherever I stuck, he asked different approaches to solve the same problem so I guess you should be familiar with solving the same problem with multiple approaches .

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

I had projects which I did in my CS CDCs, besides that I was OS TA, so a little was asked from that and also, I had a good ML project during my PS1.

Sources to help in preparation

Leetcode and Interview bit.

Name: Rishab Jain

ID number: 2019A7PS0124H

CGPA: 7.82

Role: Software Engineer Intern





Recruitment Procedure:

1st Round: The online coding round had three questions. One the question was a simple binary search question, just finding your search space was required for answering this.(Level Easy). Next was a Number theory based question, we were required to write our own function to find the count of divisors of the key (from the array) itself in the array in $O(n)$ time. This question was almost the same from a Codenation coding round which I had given earlier. (Difficulty level- Medium). Next was a string based question, I don't quite remember the details of it(Difficulty-Medium). I did all the three here and was shortlisted for a technical round.

2nd Round: My Round 2 interview was very different from the ones which I had given earlier.

The interviewer mostly asked me questions on the projects that I had done. All the questions were phrased to analyse my fundamental understanding of technology and algorithms I used. Since I was working on a MERN project for the Software Engineering course, every tiny detail of the working of a website was asked. There were some detailed questions on Number theory(He asked about my favourite course in the college so far), Machine Learning(because of my PS-1 experience), Data structures, OOPS concepts as well. There were some questions based on Computer Networks and Operating Systems following the discussion. I tried to answer most of it, and for the ones I couldn't- I politely let my interviewer know about my lack of knowledge on the topic. He also asked some Database design questions in the end. To my surprise there were no standard DSA questions asked in this round, rather my overall coding abilities were tested. He also asked me to show how I did a part of the project I had mentioned on my resume, there were follow up questions on the same, how I implemented that functionality and things like this went on for another 15 minutes. So my overall 1 hour was extended to 1 hour 25 minutes.

Important CDCs and Electives

Software Engineering(We spoke about the course and the project for about 20 minutes xD),

DSA, Number Theory, Database Design, OOPS and Networks.





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

I started preparing for the interviews from the beginning of my PS-1. I started doing competitive coding from the first year itself.

Doing questions from LeetCode and Interviewbit, was the way I prepared. It is important to cover all important topics from DSA, and do a wide variety of questions.

What are some critical topics/skills essential for the process

DSA, DBMS, Software Engineering, Number theory and Web/Android Development

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

Almost the entire interview was around a Software Engineering project. 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. There were detailed questions on one of my Android and Machine learning projects which I had mentioned on my resume.

Sources to help in preparation

Preteek Narang's interview preparation kit(Coding Blocks), Graphs(Coding Minutes), This website called- AlgorithmsAndMe was very helpful on how should we answer questions in the technical round. It had all the past questions of Google, Amazon, MS to help one develop thinking on how to answer questions after the coding rounds. Codeforces, InterviewBit had all the crux of the topics required to be touched for an SI interview.

Your suggestion to help in the preparation

Try to understand the details of the projects you have mentioned on your resume. Be thorough with all your projects and be ready to answer about challenges you faced or any technical questions from that too. For online coding rounds InterviewBit is the go to place. Some of my friends also did Leetcode Medium questions which you can try as an alternative.

Name: Diya Goyal

ID Number: 2019A7PS1327H

CGPA: 8.81

Role: Software Engineer Intern





Recruitment Procedure:

1st Round: R1 - 3 Coding questions

2nd Round: Questions related to theory from topics - DBMS, OOPS, OS, C, C++, SQL Queries and other subjects mentioned in my resume. A lot of emphasis on the projects. The questions weren't too complicated but the interviewer asked me a lot of questions. He didn't ask me to write code so back to back questions for 50 minutes straight! I don't think there was anything left on my resume about which he didn't ask any question.

Important CDCs and Electives

DBMS, OOPS, OS, DSA, C programming, Computer Architecture

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

I solved coding problems for one month during September (during 3-1) and then started again in January (3-2).

I started with the resources provided by CRUX. I found them very helpful - <https://github.com/crux-bphc/DSA-Training-2021>

also solved Leetcode problems and gave codeforces contests. For theory, I read gfg interview prep questions.

What are some critical topics/skills essential for the process

DSA and coding skills for clearing 1st round.

For Interview -

Important topics from the theory part (mentioned above). You should know all the important definitions. Differences between similar tools / concepts.

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

I had projects from my CDCs.

Projects were very important in the interview. The main focus was that I knew about the tech I used. They also asked why I used a particular language / tech stack and not the other.





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Sources to help in preparation

Leetcode, Codeforces, GFG

Youtube - Jenny lectures, NESO academy, Apna College etc.

Your suggestion to help in the preparation

I think the resume was the most important. The interviewer asked questions only about those things which were mentioned in my resume. So mention the topics about which you feel confident and can talk.

Name: Koteswarudu Akula

ID Number: 2019A7PS0035H

CGPA: 8.22

Role: Data Engineer



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Recruitment Procedure:

1st Round: First Round (Online Coding Test) : one easy , one medium and one hard type questions were asked. the hard question is based on strings and the intersection of two sorted lists. medium was based on arrays which was pretty easy.

2nd Round: Second Round (Technical / final Interview): Everything was asked based on resume. For me it was on DSA, Computer Networks, DBMS and OOPS. Asked about every project which i have mentioned in resume

Important CDCs and Electives

DSA, DBMS and OOPS

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

I have started my preparation at the start of 3rd year sem1 but i was not consistent or serious about it and i did not get SI in sem 1 but i have started doing my coding preparation very consistently after 3rd year sem 2 , i used to do about 6-7 problems a day from leetcode and i finally got selected in Gojek.

What are some critical topics/skills essential for the process

Programming skills in any language, DSA

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

Web Development, Android app development, Networking

Sources to help in preparation

Interviewbit, Leetcode

Your suggestion to help in the preparation

If we can do easy and medium type coding problems we can easily be selected in the first round. I got easy and medium questions completely correct and have passed all test cases but for the hard question only 80% of test cases are passed and the remaining are TLE. so we should be able to do easy and medium type questions in





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leetcode. In order to be selected in second round we should be crystal clear about the basic concepts of the CDC'S and projects that we mention in resume.

Name: Manav Bhagchandani

ID Number: 2019A7PS1343H

CGPA: 8.83

Role: Software Engineer



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Recruitment Procedure:

1st Round: 3 coding questions in coding round

one question was of binary search, one question was related to arrays, and one question was math related.

The binary search question was a little tricky if you figured it out that this question needs to be solved by binary search, the rest was just brute force.

The array question needed to be brute forced with a few tricky corner test cases.

The math question was again a brute force question just used long long instead of int.

2nd Round: 2 coding questions in interview round, and a couple of data structure based questions

The interview round was very easy and the interviewer was very friendly.

The first question was Pattern printing. I was given a number and I had to print a pyramid with numbers instead of stars. I had to stop at the input given.

The second question was to find the most frequent element in an array. I simple solved that using a map. Then the interviewer gave me a couple of situations and asked me which data structure was the best suited to be used in the given situation. I gave multiple answers for a given situation and gave the pros and cons of each data structure. He then built up on my answers and made me pick the best data structure from my answers.

Important CDCs and Electives

DSA, DBMS

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

I have been doing competitive coding from my first year, but I seriously started doing it after the end of my practice school, and I got the notice of the first company that came to campus for summer internships. I started solving questions from interview bit.

I studied DBMS, OOP, OS, etc from the class notes that I had made while studying those subjects as my CDCs.





What are some critical topics/skills essential for the process

Data Structures and Algorithms was very important. Other than that, my projects helped me a lot. A major part of my interview was related to the projects on my resume. It is important to have good projects on your resume.

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

My project that I made during my practice school was the major project on my resume, and that was the project on which I was questioned during my interview. Other than that, I had projects that I had made during my CDCs, and I had a few projects of my own.

Sources to help in preparation

Interview bit is a really good source to prepare. Once you are done with interview bit, either you can restart the interview bit or you can explore new problems on leetcode. I also kept giving contests on Codeforces, so that helped to keep in touch when I was not in the mood to do any preparations.

Your suggestion to help in the preparation

Have good projects, work on DSA. In the interview, It is more important of how you approach the problem than solving the problem. The interviewer will help you reach the destination, just he needs to see how you get there and don't be afraid to ask for hints, they are very generous with the hints and keep having a conversation with the interviewer, have a friendly relationship with him, and don't let there be awkward silences. Make sure you talk about the time complexity of your solution.





Google

Eligibility: 2nd Year female B.E.

CGPA Cut-off: 0

Roles: STEP Intern

Selects: 2

Selection Rounds: 3

Stipend: 65,000.





Name: Maitri Goel

ID Number: 2019A3PS0391H

CGPA: 8.8

Role: STEP Intern

Recruitment Procedure:

1st Round: Resume shortlisting. Strong resume helps a lot.

2nd and 3rd Round: Both rounds were technical interviews. Each round was one hour long, basic coding questions, and questions on digital design(flip flops etc) and electrical sciences were asked. Coding questions were based on basic algorithms and data structures.

Important CDCs and Electives

DSA, CS F111, Digital Design, Electronic Devices

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

I started in December after the results of the resume shortlisting round came out(interviews were in mid January). I started digital design and electronic devices from scratch, and prepared from playlists on youtube. Focus more on concepts and in-depth learning. I used to give contests on codeforces before that, so I didn't give much time on coding concepts then.

What are some critical topics/skills essential for the process

Data Structures and other basics of coding, well versed with any coding language, such that you can write error-free code without a compiler. Flip flops and memory design, working of transistors in a circuit etc.

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

The projects I had worked on were not much related to the hardware field. The projects I had worked on were app development and IoT based HEMS





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Sources to help in preparation

Codeforces, InterviewBit, Cp-algorithms

Your suggestion to help in the preparation

Stay calm while appearing for interviews and keep communicating with the interviewer. Tell them your thought process and how you are approaching the problem. The interviewers were very friendly and helped whenever I was stuck or confused.



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Name: Jasreet Kaur Bheora

ID Number: 2019A3PS0421H

CGPA: 8.6

Role: STEP Intern

Recruitment Procedure:

1st Round: Resume shortlisting. Google looks for a strong resume.

2nd Round: Technical interview, 45 min to 1 hour long. Concept based questions on Cpp were asked

3rd Round: Technical interview, similar to the first round. A small programming based question was given for solving apart from the electronic based questions.

Important CDCs and Electives

CS F111, Electrical Science, Electronic Devices, Digital Design

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

The resume shortlisting was announced during the third week of December in 2020. I started preparing immediately after that. My interviews were scheduled for mid-January so I had some 20 days to prepare.

What are some critical topics/skills essential for the process

Basics of all the core electronic courses like electrical sciences, electronic devices, digital design were very important. Questions asked weren't very hard but they tested basic concepts. Knowledge about languages such as C and Cpp and some basic programming skills were also tested.





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Sources to help in preparation

Codeforces, InterviewBit, Cp-algorithms

Your suggestion to help in the preparation

Think aloud and be confident. Thinking out loud helped me convey my thought process to the interviewer and they corrected me wherever I went wrong.



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Google LLC

Eligibility: B.E. All

CGPA Cut-off: 0

Roles: SDE Intern

Selects: 3

Selection Rounds: 3

Stipend: 110000



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Name: Jahnavi Gurdasani

ID Number: 2019AAPS0556H

CGPA: 9.5

Role: SDE Intern

Recruitment Procedure:

1st Round: Coding Test- There were 2 DSA problems of medium to hard level in the coding round.

2nd Round: Technical Interview (Round 2 and 3)- A medium-level coding question was asked, and the same was given to code.

Important CDCs and Electives

Object-Oriented Programming (OOPs)-Recommend watching all the lectures even if you have not enrolled in the course.

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

I started preparing three-four months before the internship season was to begin. I began with learning the basics of all the data structures and standard algorithms and then regularly practised DSA on leetcode. In the final days of preparation, I used interviewbit to practise company-specific problems.

What are some critical topics/skills essential for the process

1. DSA
2. OOPs

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

I worked on a few web development projects. A simple CRUD app and a video calling react application.





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Sources to help in preparation

Leetcode, Interviewbit, GeekforGeeks

Your suggestion to help in the preparation

In Google interviews, OS DBMS Or even OOPs are not asked generally. DSA is the only thing you should be thorough with, especially trees, graphs, and their standard algorithms



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Name: Hriday Gajulapalli

ID Number: 2019A7PS1212H

CGPA: 9.12

Role: SDE Intern

Recruitment Procedure:

1st Round: Online Coding Test-

- * I had 60 minutes to solve two problems - an easy/common problem and a slightly tricky one.
- * The easy one was a reasonably common DP problem. I am pretty comfortable with DP, so it was just a matter of implementing it. It took me about 10-15 minutes to solve. Ideally, you should be able to identify the easy problem and solve it within 20-25 minutes to give yourself enough time for the more challenging problem.
- * The other problem was an application of Dijkstra's algorithm on a grid. A few key observations had to be made first, only after which it became apparent that I had to use Dijkstra's. It helps to practise implementing common data structures and algorithms beforehand so that you can save as much time as possible during the actual round and minimise the chances of running into untimely bugs. Even with this, there is no guarantee; It still happened to me. I would not have solved both problems if not for the early solution on the easy one.

2nd Round: Technical Interview 1 -

- * I had about an hour with the interviewer, during which we covered one problem with three subtasks.
- * It was a problem on strings where I had to compute some value. The initial version of the problem was simple, and it seemed like they expected a brute force solution, which is what I gave them.
- * Then, they modified the problem (something along the lines of the strings being sorted). This additional constraint made binary search possible. I explained how I built up the binary search solution from the previous brute force one. This seemed like what they were expecting, so I was asked to code it up in a language of my choice.
- * As an aside, keep your code clean, readable, and indented. Use descriptive variable and function names. Obfuscated, typical competitive-programming-esque code is a big no-no. You'll have to do all this on google docs, so be





prepared to deal with autocorrect and screwed-up indentation (or be smart and configure all this in advance).

- * Finally, they imposed yet another constraint (like one of the strings is very big). My solution to this subtask was to only iterate on the smaller strings and do something.

- * All throughout, I had to mention the time and space complexities of my algorithms. Do be mindful of them and do not misjudge them in haste. I would strongly recommend specifically practicing how to argue the complexity of code/algorithms clearly and concisely. Communication is key.

3rd Round: Technical Interview 2 -

- * This one was similar to the previous one. Only the problem differed.

- * The problem went something like this - You are processing a stream of (x,y) points (offline processing is not allowed). For each point, find the number of squares that can be formed using the previous points as vertices such that this point is contained within. I first attempted to solve the problem if the sides of the squares are axis parallel but never got around to solving the more general case.

- * Unlucky, since geometry is the bane of my existence. Although I struggled quite a bit with this problem, after enough hints and back and forth with the interviewer, I could build up to a solution better than the brute force one. Had it been any other topic, I feel like I would have done much better. There is some degree of luck involved, too I guess.

Important CDCs and Electives

The standard answer is DSA, but I firmly believe one can learn the required concepts on their own without having done the course. In fact, I had already learnt, by myself, what data structures and algorithms I needed from doing competitive programming alone. The actual course did not contribute much. Exploring it yourself and at your own pace is the best way to learn. Practical problem solving is wildly different from writing theoretical two-page formal proofs.

Apart from DSA, there don't seem to be any other courses/topics worth mentioning (OOPS, DBMS, etc, were not asked).

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

I've been doing competitive programming (CP) since 1-1 and have actively participated in contests on sites like CodeForces, CodeChef, and AtCoder. All my 'DSA' knowledge





results from that, and I believe it is also great practice for analytical thinking and logical reasoning for problem-solving in general.

However, some things are asked in interviews that you do not see in CP, like doing pointless weird things with linked lists, binary search trees, etc. So during the last few weeks of PS1, I practised problems on specifically those topics on sites like Leetcode and Interviewbit.

I also brushed up on all the other topics whenever I could. By brush up, I mean two things - 1. Going through the algorithm and code implementation details again (well enough to be able to code it from scratch quickly without having to think much) and 2. Solving at least 3-5 problems on the same (mostly mentally; without actually coding to save time, thinking up the solution was the aim). Keep in mind this is what I did because I was already familiar with these topics. My strategy is different for new concepts.

In the last few days leading up to the interviews, I looked at previous year's problems and people's experiences. I had seniors take multiple mock interviews for me. There were many subtle things during interviews that I was made aware of and would not have known otherwise. This was probably what prepared me the most for the actual interviews.

And finally, I think doing this entire process along with a friend is a great idea. It keeps you motivated. I would not have pushed myself as much if not for them. It's a win-win; It's not competition if you both get in :p

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

- * Algorithmic/Analytical thinking and logical reasoning
- * Communication (how well you can express your ideas to the other person)
- * And lastly, important DSA concepts to aid as tools in your solution ideas





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

While I cannot say for sure if it mattered, having good projects to back up your resume is advisable. If you're like me and haven't done any resume-worthy dev projects, you should still be able to choose from your OOPs, DBMS, and SE projects (if you've done these courses).

I spent way more time than I'd like to admit on creating my resume and getting feedback from seniors.

Sources to help in preparation

* If you are like me, already having a solid background in competitive programming, I think doing something similar to what I did as described above might be good for you.

* Otherwise, I would suggest learning the required DSA topics first. The following link has my personally hand-picked tutorial resources and problems on the same:

[\[https://github.com/crux-bphc/DSA-Training-2021\]](https://github.com/crux-bphc/DSA-Training-2021). This is meant to serve as an introduction and does not guarantee that you will become an expert after only exhausting the resources mentioned here. More practice is key.

* Regardless, grind problems on Leetcode and Interviewbit for interview preparation.

Name: Jeevan Jyot Singh

ID Number: 2019A7PS0172H

CGPA: 9.92

Role: SDE Intern





Recruitment Procedure:

1st Round: Coding Test- The coding round had two coding problems. One of them was a dynamic programming question, and the other one was a non-trivial application of Dijkstra's algorithm.

2nd Round: Technical Interview 1 - In this round, a DSA-based question had two subtasks. The first one was a simple greedy problem. The second one was a variation of the first one, which was based on dynamic programming.

3rd Round: Technical Interview 2 - In this round, a DSA question is based on graphs. The solution included topological sorting the graph.

Important CDCs and Electives

Data Structures and Algorithms

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

I started Competitive Programming in 1-2 without knowing that C.P. would be of such a great help in S.I. With time I practiced a lot of problems from Codeforces and regularly gave contests. A few months before the SI drive, I already knew most of the topics that were asked in Coding Rounds / Interviews. I practiced typical DSA questions of Linked Lists, Heaps, and Trees and shifted my attention to LeetCode about 30-40 days before the SI drive. All of this was enough for me to secure an internship at Google.

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

1) DSA: DSA is a must to secure SI at Google. Google focuses purely on DSA in their interviews and coding rounds. Unlike other companies, it does not ask OOPS and DBMS in its rounds. Therefore one must have a strong hold on DSA since the level of DSA required for Google is higher than that in other companies.

2) Interview Practice: It is essential to ask any of your seniors to take a mock interview of you before the actual interview. Going without any mock interviews to any actual





interview will not be favorable as you might panic or might not know how exactly to express your thought process to an interviewer. Therefore mock interviews are crucial.

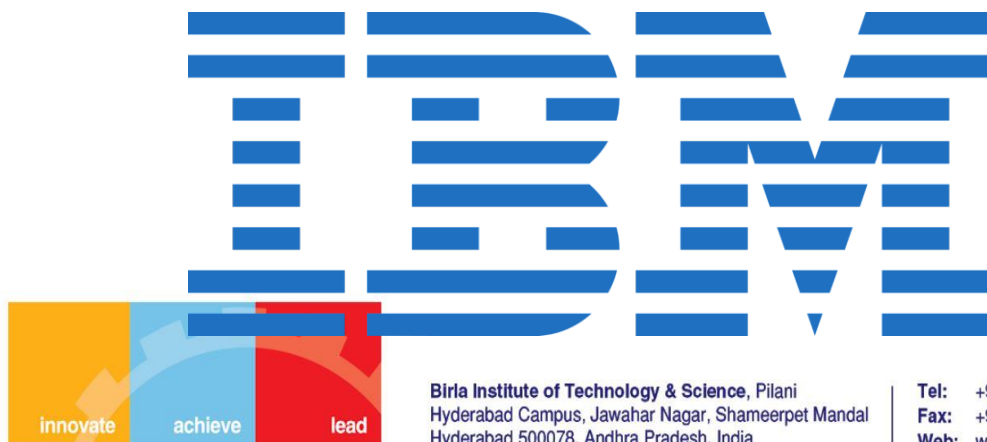
Your suggestion to help in the preparation

If you have quite some time before your SI drive begins, my recommendation would be to:

- Practice on Codeforces / Codechef first
- Keep giving contests
- Upsolving the problems after the contest that you were not able to solve in the contest and those you feel are within your reach
- See the codes of other experienced coders from which you might learn a lot
- Refer to the summer group posts in the BPHC Competitive Coding group to get started

When only 1.5 - 2 months are left for the SI drive to begin, my recommendation would be to:

- Practice on LeetCode and InterviewBit
- Make sure you are well acquainted with all the topics in: <https://github.com/crux-bphc/DSA-Training-2021>
- To see the previous year's problems of the company you are aiming for
- Make sure to give a few mock interviews after clearing the coding rounds.





IBM

Eligibility: B.E. (all)

CGPA Cut-off: 7.0

Roles: SDE, ExtremeBlue Intern (SDE Intern)

Selects:

Selection Rounds: 2

Stipend: 35,000





Name: Ayush Sunil Pote

ID Number: 2019A7PS0112H

CGPA: 7.0

Role: SDE Intern

Recruitment Procedure:

- In the first round, I was asked a simple DSA Q of checking a loop in a circular linked list. Then I was asked about my projects. Since blockchain was mentioned on my resume (And probably the interviewer was very excited about blockchain), he asked me about blockchain for the rest of the interview.
- The second interview was mainly HR round. She asked me some standard HR Qs and also asked about the projects mentioned on my resume. In the end, she also asked about my extracurricular activities and was quite impressed with my communication skills and enthusiasm.

Important CDCs and Electives

DSA, Blockchain

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

After my 2-2

What are some critical topics/skills essential for the process

DSA, OOPS, DBMS, Any DEL like blockchain, ML, crypto,
Communication skills

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

Blockchain project and PS-1 ML project





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Sources to help in preparation

Interviewbit, Leetcode

Your suggestion to help in the preparation

You should be able to explain each and every project on your resume. Should have solved at least all basic DSA Qs from every topic.



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Name: Rohan Rao

ID Number: 2019A7PS0048H

CGPA: 8.28

Role: SDE Intern

Recruitment Procedure:

There were two rounds one technical round and another HR. In the technical round, there were two interviewers, they first asked me about my project and what design patterns i haved used in my project. Then they asked me a few questions on oops, a few questions (very basic) dsa and a few questions on DBMS (about normalization). And then the other interviewer asked me about a project on data mining which I mentioned in my resume.

In the HR round they just asked me about my projects.

Important CDCs and Electives

Oops,DBMS,Dsa,data mining

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

June-July

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

Having a thorough knowledge of dsa and a few good projects on your resume is a must.

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

The oops project which was given as a course work and a project on blockchain.

Sources to help in preparations:

<https://leetcode.com/>

<https://www.interviewbit.com/practice/>

<https://codeforces.com/>

Your suggestions to someone preparing to appear in this company?

Be good at basics.

Name: Pavan Kumar Reddy Yannam





ID Number: 2019A7PS0038H

CGPA: 8.42

Role: SDE Intern

Recruitment Procedure:

Round 1 - Technical Interview (Total 60 min)

I was asked questions related to data engineering and data analysis. (As I have worked on a lot of data science projects during my 2-2 and 3-1)
I was given a large dataset, which I was asked to open on Jupyter/Google Colab Notebook, and perform exploratory data analysis.
Also, I was asked some questions on my "Network Intrusion Detection System using ML" project.

Round 2 - Technical + HR Interview - Interviewed by Global Systems Integrator (GSI) head of IBM India (Total 50min)

First, I was asked to introduce myself and talk about my interests, experiences, and goals in general (20 min). Then, I was grilled on the projects I worked on and my technical skills (30 min). I was asked about my learnings from my projects and how I overcame difficult obstacles that I encountered during the projects.

Important CDCs and Electives

1. Project Type Courses
2. Informal Research Projects
3. Course Projects/Assignments
4. Data Science Minor Coursework and Online Courses (Coursera, edX)

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

1. Strong Fundamentals in your topic of interest.
2. Experience through projects is a big plus

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

1. Machine Learning Applications in Medical Domain (Tensorflow, PyTorch, Pandas,





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Numpy, matplotlib)

2. Software Development Projects (Full Stack Web Dev Projects - Django, Flask, Node JS, React JS)
3. Software Design - Developing a framework from scratch to implement a certain task

Sources to help in preparations:

Online Courses (Edx, Coursera) for basics and build experience by working on projects (either on your own or under the guidance of others or in a team)

Your suggestions to someone preparing to appear in this company?

Work on your DS/CS fundamentals.

Be confident.



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intuit®

Intuit

Eligibility: B.E (All)

CGPA Cut-off: 0

Roles: Software Engineer Intern,
Software Development Intern, Summer Intern

Selects: 4

Selection Rounds: 3

Stipend: 80,000

Name: Kanti Sonnathi

ID Number: 2019A7PS1209H

CGPA: 8.06

Role: Software Engineer Intern



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Eligibility criteria:

Coding challenge, technical assessment, values fit, research and summer work experience, leadership positions in group activities.

Recruitment procedure:

1st Round: The first round consisted of one dynamic programming question and one binary tree question.

2nd Round: The second round had around 3 coding questions, and the interviewers asked questions based on the projects listed in my resume.

Important CDCs and Electives:

OOP, DSA, DBMS, network programming.

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

Started serious prep in June during PS. Mostly practiced coding using a website called BinarySearch, which added an element of light competition. Also practiced LeetCode questions and tried to participate in as many competitive coding competitions as possible. InterviewBit questions were also very helpful.

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

Staying motivated despite the constant frustration and rejection is quite important. Technically speaking, dynamic programming was the most challenging concept and it was also asked the most.

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

Worked on a lot of web applications which showcased development skills. Also worked on a research project which the interviewers found intriguing, along with adding all the projects done in CDCs and DELs.





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Sources to help in preparation:

binarysearch.io, LeetCode, InterviewBit, Abdul Bari on Youtube for DSA concepts.

Your suggestion to help in the preparation:

Know your projects and resume from the inside out.

Name: Ankita Behera

ID Number: 2019A7PS0075H

CGPA: 9.33

Role: Summer Intern



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Recruitment procedure:

1st Round: A coding test

2nd Round: 2 interview rounds which also involved coding live.

Important CDCs and Electives:

DSA, DBMS, OOP.

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

May of the same year. Practised mostly from Leetcode and studied OOP and DBS theory.

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

Graph theory, time complexity analysis, data structures, knowledge about programming languages and where they should/shouldn't be used.

Sources to help in preparation:

Leetcode, GFG.

Your suggestion to help in the preparation:

Basics should be strong, they won't ask any direct questions, problems in the interview will only be to check how you go about the solution. Coding round will be moderately difficult.

Name: Sidharth Anand

ID Number: 2019A7PS1203H

CGPA: 8.76

Role: Software Development Intern

Recruitment procedure:



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1st Round: Coding test. There were 3 problems; the first two were fairly easy and almost everyone who attempted got them right, at least partially. The last one was comparatively harder, and needed much more time. This question was the deciding factor

2nd Round: Interview Round 1. This round was supposed to be mainly focused on your projects and your resume. In the job description, it was mentioned that they were looking for people with C++ or JS experience and most of their questions were focused on the projects in which either of those were used. The interviewer glossed over most of the projects and just asked to give a very high level overview of them. They did go into detail into a couple projects, mainly because of extensive use of C++ and JS in them. Having a lot of personal projects helped a lot in this round, especially having them in varied domains.

3rd Round: Interview round 2. This round was a Technical/HR round. It started off with some questions from courses like DBMS and OOPS. Since I'd included some previous internships and experience in my resume, the HR questions were mainly focused on that, and my ability to work in a team and meet deadlines relating to those internships. There were also a couple of DSA questions based off of heaps and linked lists respectively, which you had to code live in front of the interviewers. While the questions were relatively easy, writing good code, and thinking out loud and describing your thought process is a huge advantage in this round.

They were more interested in the way you approached the problem and the solutions you tried out rather than getting the most optimized algorithm in the first try. Was again asked some questions related to the projects on my resume, but these were mainly just a high-level overview and to determine interests and not very technical.

Important CDCs and Electives:

DBMS was a big help as the 2nd interview round had several questions straight from the course.





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

Started preparing very late, only at the beginning of the semester, preparation consisted mainly of solving a few LeetCode easy questions.

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

DSA for the coding test.

Projects and some dev experience for the 1st Interview round (Having projects outside of course projects is a huge bonus)

DBMS and DSA for the 2nd Interview round.

Sources to help in preparation:

Worked on a lot of projects from varied domains - WebDev, Game Dev, Audio Programming, ML and C++ Software Dev. All of this, along with the GSoC project, were very useful in the 1st Interview round because the entire round was majorly focused on these. Having internships and work experience in the resume were also very helpful. Projects from those helped in both the interview rounds as both technical and HR questions were asked from them.

Name: Durba Satpathi

ID Number: 2019A7PS0972H

CGPA: 9.85

Role: Software Engineer Intern

Recruitment procedure:

1st Round: a coding test.



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2nd Round: 2 interview rounds.

Basic questions from object oriented programming ,database management systems and Dynamic programming. In the first round, mostly theoretical questions from DBMS and design patterns from object oriented programming were asked. In the second round, we were asked to describe the projects from the resume, one live coding question and a few questions from DBMS were asked.

Important CDCs and Electives:

DSA, DBMS, OOP.

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

DSA, DBMS, OOP.





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Microsoft

Microsoft

Eligibility: B.E. (CS,ECE,EEE,ENI)

CGPA Cut-off: 7

Roles: SDE, SWE, Software Engineer

Selects: 21

Selection Rounds: 4

Stipend: 125,000



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Name: Tanya Prasad

ID Number: 2018B5A71054H

CGPA: 8.4

Role: SWE Intern

Recruitment Procedure:

1st Round: Coding Round- Bitmask based question, trees based question.

2nd Round: Interview- 2 pointers and unbound knapsack + questions on past projects.

3rd Round: Interview- 2D matrix implementation - Hard, questions on past projects.

4th Round: HR Interview- HR questions + one linked list question-very easy + one question to describe one project from resume.

Important CDCs and Electives

DSA

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

July mid, I prepared only for 2 weeks aside from practising DSA course assignments.

What are some critical topics/skills essential for the process

1. Leetcode easy to medium questions.
2. Ability to describe thought process.
3. Knowing resume projects very well.

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

GSoC, Summer intern at a Software company and PS1, in addition to full stack projects like <http://psitseasy.ml>.

More than half of my interviews were spent talking about these.

Sources to help in preparation

LeetCode

Your suggestion to help in the preparation

1. Know basics very well and practice top questions from LeetCode.





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2. Know resume projects very well.

Name: Manan Agrawal
ID Number: 2019A3PS0400H



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CGPA: 9.07

Role: SWE Intern

Recruitment Procedure:

3 Rounds in total with questions based on DSA, Brainstorming, and HR interview round.

Important CDCs and Electives

None

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

Started preparing from 2-2. Started with competitive programming, and then solved problems on InterviewBit. Googled/searched on YouTube for any doubts.

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

1. DSA
2. Mock interview experience.

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

Did a project offered under Microsoft engage program. Developed a video calling android app.

Sources to help in preparation

InterviewBit; Codeforces; LeetCode; GeeksforGeeks; Abdul Bari, Tushar Roy (YouTube sources)

Your suggestion to help in the preparation

Solve a good number of questions on topics like LinkedList, Trees, Binary Search, and Sorting. Need not trouble yourself with the highest level topics(segment tree, red black tree etc.) if short of time.

Name: Shrikrishna Lolla

ID Number: 2019AAPS0345H

CGPA: 9.17

Role: SDE Intern





Recruitment Procedure:

There was one coding round that they used to filter out candidates for interviews. There were 3 technical interviews with the last round being a combination of HR and technical. The questions asked were standard LeetCode questions, with the exception being the last round. The coding round had two problems - one trivial and one BFS related question. The first two coding rounds had Data Structures (linked lists and hash maps) related questions and one two-pointer question. The final round was a combination of HR and technical rounds.

For the first half, the interviewer discussed my resume. I had done an internship in Machine Learning (Recommender Systems specifically) alongside PS1, and the interviewer himself worked on Computer Vision. We discussed the work I did and the challenges I faced during the internship. Next, I was asked about a seemingly complex problem that required some knowledge of computational geometry. The interviewer was mainly looking at my approach to the problem, and luckily that was sufficient for me to clear the interviews.

Important CDCs and Electives

DSA should be enough although doing OOPs and/or DBMS is a huge plus and their projects may play a pivotal role during project rounds. I have done none of these courses but they should certainly help.

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

I used to take part in competitive programming contests since my 1-1. I grinded LeetCode questions for 2-3 weeks (mainly focusing on linked lists, BSTs and other data structures). Mock interviews with friends/seniors a day or two before the interviews are a huge plus.

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

Problem solving/DSA. I had not done DBMS/OOPs so all my interviews were majorly focused on problem-solving.

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

I had done an internship related to machine learning. It became a talking point in the last round. Besides that, I had several other ML-related projects that I had worked on since my first year. I also had a course project on network programming.





Sources to help in preparation

Codeforces, CSES, CP-algorithms, LeetCode, InterviewBit, friends/seniors for mock interviews.

Your suggestion to help in the preparation

Microsoft generally rips off questions straight from LeetCode, so check out all of their questions a day before the interview. They love linked lists, trees and DS-related questions.

In general (for any company):

Just be cool and focused during the interviews. Be friendly to the interviewers. If you have multiple rounds, try to take some rest between them. This is very important as you may not feel fatigued when you sit down for the interview, but it shows up when you attempt to solve the problems. Always communicate your thoughts clearly. Always have a strong grasp on one project/internship experience as it can become a talking point during the final rounds of the interviews.

Name: Prathmesh Srivastava

ID Number: 2019A7PS1322H

CGPA: 8.6

Role: Software Engineering Intern

Recruitment Procedure:

The selection criteria was mainly based on DSA skills and past projects.



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Coding round: 2 DSA related questions were asked. One was related to bit manipulation and the other was related to n-ary tree.

1st Technical Round: The interviewer was quite friendly and helpful. He first asked about my projects and work experience. Then a question related to strings and graph was asked. After giving the approach and a basic implementation he asked how we can improve it further. After suggesting an improvement and implementing it he asked what else we can improve. So, we had a couple of iterations after which he was finally satisfied and asked to implement it in code.

2nd Technical Round: After giving the first round, I was directly asked to appear for the HR round.

HR round: This round was more of a tech round than an HR round. The interviewer first asked about my previous round. Then he gave a real-world problem and asked to come up with a solution with good design principles, keeping in mind all possible cases. Then I was asked a few questions related to projects mentioned on my resume. He asked questions like what factors influence the choice of programming languages and tools.

Important CDCs and Electives

DSA, OOPs, DBMS

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

I used to solve problems on Codeforces from my first year, although I was not very regular. Then from mid-June, I started preparing seriously. I started practising on InterviewBit trying to maintain a streak and getting a good position on the college leaderboard. I also regularly participated in Codeforces contests. I practiced SQL queries from LeetCode and Hacker Rank.

For OOPs and DBMS I went through GFG articles and the top 50 OOPs/DBMS questions.

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

1. Good command over DSA, OOPs and DBS is required.
2. Good communication skills are important.

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

SWD Nucleus - I mainly worked on the SWD website handling the frontend, backend and databases.

PS-1 - It was pretty lite with the company taking no interest in giving us any work. So, I didn't mention it in the resume.





Summer Internship - I worked for a company which had a US-based insurance provider as their client. I worked on a web application and a backend built on AWS using a microservice architecture. Having a real-world project was really helpful during the interviews.

Sources to help in preparation

- **Interview Bit** - Huge variety of questions. The streak system keeps one motivated to solve questions.
- **LeetCode** - Both InterviewBit and LeetCode have many common questions. So using either one of them is sufficient.
- **Codeforces** - Participating in competitions and aiming for A/B/C in div 2 and A/B/C/D in div 3 is very helpful.
- **GeeksForGeeks** - There are company-specific achieves and interview experiences available.
- **Gururaj's sir lectures** for DBS. Top 50 OOPs/DBS questions.
- **LeetCode/Hacker Rank** for practising SQL queries.

Your suggestion to help in the preparation

For this company, I would recommend having a good grasp of DSA. Also, past year GFG archives are helpful. Although DBS and OOPs questions were not asked for this company it is good to be prepared anyway.

Another important thing is a good CV. It is not necessary to include 3-4 projects, rather focus more on the quality of the project and be prepared to explain the project in detail.

Lastly, it is important to be confident, and honest during the interview.

Name: Rishita Pandey

ID Number: 2019A7PS0104H

CGPA: 8.25

Role: SWE Intern (**Off-Campus**)

Recruitment Procedure:

Since I was a part of the Microsoft Engage 2021 program, I didn't have to sit for the coding round. I had two interview rounds instead.





1st Round: Mainly based on DSA. I was asked one question about arrays and the other question was related to time complexity. The interviewer also asked me about the number of bytes required for different data types in C++.

2nd Round: I was asked a question about threads in a process and two more coding questions.

In both the interviews, the last 5-10 minutes were dedicated to asking questions to interviewers about the coding culture in Microsoft, what are the projects on which interns work, etc.

Important CDCs and Electives

DSA, DBMS, OOPs, Computer Programming

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

I started practising questions on Codeforces and giving contests on it. I started focusing on my SI preparation after 2-2. I started practising questions on InterviewBit and GeeksforGeeks. The GeeksforGeeks complete interview preparation by Sandeep sir helped me a lot during my preparation.

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

I would suggest being calm and confident in the interview. It is not necessary that you answer all the questions correctly nor it is expected from you. Whenever you type a code during the interview just keep explaining to him/her what are you thinking and what are you writing. It gives the interviewer a positive feedback that you know about the topic and trying to solve the problem. In the last, always ask questions from the interviewer about the company and the project he/she is working on, etc.

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

I had done only the course project of OOPs and DBMS till the end of 2-2. I did my first web development project during the Microsoft Engage Program.

In both of my interviews, they didn't focus much on the projects. They were rather more interested in DSA.





Sources to help in preparation

Solving previously asked questions on InterviewBit and GeeksforGeeks, practising by taking part in contests on Codeforces and the GeeksforGeeks complete interview preparation by Sandeep sir, all these helped me a lot during my preparation.

Your suggestion to help in the preparation

Microsoft mainly ask questions which are related to the questions previously asked in interviews. So practising questions from InterviewBit and GeeksforGeeks will help. Moreover, the complete interview preparation course by Sandeep sir covers all the topics from all the subjects of CS. Last but not least, be calm and patient and face your interviews with full confidence.

Name: Yashank Garg

ID Number: 2019A7PS0347H

CGPA: 9.5

Role: Software Engineering Intern

Recruitment Procedure:

1 Coding round – 2 DSA based questions.



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2 Technical Interviews – Majorly based on DSA, one of the questions was basically an implementation of topological sort, be sure that you handle edge cases in your solution.

1 HR Round - a little discussion on what was put on the resume.

Important CDCs and Electives

DSA, OOPs, DBMS

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

Midway through PS1, I started practising on InterviewBit and LeetCode.

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

1. Good practice of DSA is important, OOPs and DBMS concepts that are taught in the subject course are good enough.
2. The ability to communicate effectively really helps.

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

I had put my course projects on my resume along with PS1 project, be sure to be thorough in whatever project you mention.

Sources to help in preparation

InterviewBit and LeetCode

Your suggestion to help in the preparation

- Before the actual interview, it is always good to give some mock interviews to get familiarized with the process.
- Try to cover all topics of DSA, at least medium level on InterviewBit.
- Go through the archives before the online test.

Name: Kartik Mahajan

ID Number: 2018B3AA0351H

CGPA: 8.13

Role: Software Engineering Intern





Recruitment Procedure:

Online Coding Round - 2 DSA-based questions were asked, one from bit manipulation and the other was Tree Dfs based.

First Interview Round - Once again it was exclusively DSA based, I was asked 2 questions, the first was cloning a linked list, and the second was finding the next greater permutation of a given number, both standard problems which I had previously solved. I briefly discussed some sub-optimal solutions before arriving at the optimal solution.

Second Interview Round - I guess based on the feedback from the first interview, the 2nd interviewer started with a low level system design problem, and asked me to create a data structure to simulate the mathematical sets, and with the functionality of performing operations such as unions and intersections.

I was quite open-ended, the interviewer asked me to start coding whatever I had in mind, and said that we'll figure out the details together as we go. Every time I wrote something, he introduced some additional requirements and constraints. I was able to code out all the functions he asked for but was unable to create some abstractions he asked for towards the end. I'm still not sure of what exactly he was looking for. After seeing me struggle here he went back to DSA and asked an interesting problem based on "range updates", having solved a similar problem earlier on cses, I was able to offer a solution, and he was quite pleased with it.

Third Interview Round - This time the interviewer was very senior with some 25 years of experience, the interview started off with some normal conversation, that's when he noticed I was using Windows 11 (which was in beta at the time), and he asked about my likings and gripes with the OS.

After this I was once again asked a couple of DSA questions both very open-ended, he kept introducing new requirements and constraints along the way. First was a string based addition of numbers, where the base(binary, octa, hex, etc.) was also to be taken as an input. Second was a grid dfs problem which was all discussion only, and he did not ask me to write any code for it.

Important CDCs and Electives

Had only done CS F111 by then.

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

I started practising DSA on HackerRank, after the first year itself during the summer break but was unable to continue once college started.





After college was shut down due to covid, I started an algorithms specialisation on Coursera, finished an NPTEL DSA course from YouTube, and also occasionally solved some problems on GFG. This was in 2-2 and during PS-1.

Once again after college resumed I was unable to give much time but continued with occasionally solving GFG problems.

Midway through the next semester when clear grades were introduced, I started serious preparations, giving 3-4 hours daily to problem-solving, I solved Love Babbar's DSA sheet and completed InterviewBit(at least a couple of questions from each bucket) and also Striver's DSA sheet, there was a lot of overlap, and I had solved almost all standard problems at least once if not more. I proceeded to cses problem set, which is much more challenging but definitely worth it.

At this point I was feeling quite comfortable with such problems and was able to come up with solutions quite quickly, and started a web dev course on Udemy, creating a small web application, learning about the basics of MERN stack.

As for the other subjects, DBMS and OOPs, I stated these only after clearing my first coding round, spent maybe 3 days each on some YouTube playlist and InterviewBit questions which were sufficient for me.

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

DSA was the only subject that mattered, at least for me, but definitely do give OOPs and DBMS some time as well.

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

I only did one MERN stack project(web development) and my PS-1 project which was again a web dev project including some very basic NLP. However, I don't think either of these had any impact.

Sources to help in preparation

- InterviewBit would be the best resource in my opinion.
- You should also check out Striver DSA sheet, he also has video explanations for a lot of problems on his YouTube channel, which I found quite helpful.
- Once done with this, do checkout cses problem set and try giving contests on LeetCode, to help prepare for the online coding rounds.
- After this, you can start reading interview experiences on GFG and even watching a few mock interviews on GFG's YouTube channel.





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- This much should get you through almost all companies, barring maybe Google, Code Nation etc.

Your suggestion to help in the preparation

Nothing specific to Microsoft, almost all companies focus on the same areas.

Name: Om Agarwal

ID Number: 2019A7PS0052H

CGPA: 9.28

Role: Software Engineering Intern



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Recruitment Procedure:

- **Online Test:** In this round, 2 questions were asked. Both of them were standard questions and were quite common and can be solved in less than an hour if you have a good practice of solving problems. Questions were random for everyone.
- **First Interview:** The round was entirely DSA based and two questions were asked. One was based on Binary search Tree and the other was based on two pointer technique. We were expected to focus more on logic and then finally run on few test cases.
- **Second Interview:** The second round was a single DSA question which was to be solved using Directed Graph and DP. They expected us to explain the logic as well as code it from scratch, explain the time and space complexity and finally run the test cases.
- **Third Interview:** Third round was a mix of HR and Project related work. I was asked to introduce myself, followed by questions based on my projects and resume and certain technical questions.

Important CDCs and Electives

DSA, OOPs, Discrete Structures in Computer Science

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

I started preparing towards the mid of PS-1 by solving problems from InterviewBit, LeetCode, and Codeforces. I used to give contests on Codeforces and later upsolve the problems of it. The organization of topics in InterviewBit is quite good and the problems are in increasing order of difficulty. This helped me a lot to prepare for problem-solving skills. Before interviews, I looked at the archives that were there on GeeksforGeeks which also added value to my preparation.

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

1. Good grasp of DSA.
2. Clear idea about the projects mentioned in the resume.
3. OOP is also important, mostly the fundamental concepts of OOP.





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

I had worked only on the course project of OOP and DBMS. OOP project was mainly focused on android development and DBMS was focused on designing a database for an organisation.

Sources to help in preparation

- GeeksForGeeks
- InterviewBit
- Codeforces
- LeetCode

Your suggestion to help in the preparation

Practising problems for coding as well as interview is important. Be confident during interviews while discussing the questions. Explain your approach towards the question clearly, and try to keep it interactive. Interviewers are generally friendly and will give you hints in case you are lost or you are taking a wrong approach to solve the problem. Be patient while explaining. All the best!

Name: Dhruvikaa Ahuja

ID Number: 2018B3A70916H

CGPA: 8.3

Role: SDE Intern





Recruitment Procedure:

I got selected through their mentorship program called Engage. Selections for Engage happened through a test. The mentorship program itself was for one month during which we were asked to make a video calling application. Based on that interviews were held. Students who got in through Engage didn't have to appear for on campus test. However, some students had interview with other on campus students.

Microsoft focuses on basic topics like Searching, Sorting, Greedy, Linked List and Tree. The test (for the mentorship program) was based on these topics plus stacks and queues.

In the second phase of Engage, we were asked to clone MS teams which essentially meant making a video chatting application (mandatory functionality). They asked us to add a chat window as extra functionality. A sufficient amount of time (4 weeks) was given to complete the project. As far as I know, whoever submitted their work with at least mandatory functionality implemented got the chance to sit for interviews.

I had two interviews after it and very basic questions related to searching and sorting were asked.

In the first interview, I had to code and run the solution. The interviewer was very helpful and motivating.

In the second interview, I was asked to write pseudocode for a medium-level Linked List question.

I was not asked about any of the projects or even Engage project but many students were asked the same.

Important CDCs and Electives

DSA as the topics asked in the interviews are exactly the same as what is taught in the course.

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

I started seriously preparing as soon as the summer break started. Firstly, I gave time to revise basic topics. I started Strivers placement sheet (link mentioned in sources) and did 4-6 questions per day. I tried to maintain the balance between trying and solving on my own and looking at the solutions.





Then I started the Crux material as soon as it was released. In my opinion, it itself is more than enough if properly followed.

I gave Codeforces contests regularly but one should also give LeetCode ones.

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

Don't be overwhelmed by the entire list of topics that needs to be completed. Give time to initial topics because they are important and try to understand the concept well. Find the right balance between completing topics and solving questions from previous topics.

Sources to help in preparation

1. SDE sheet: <https://takeuforward.org/interviews/strivers-sde-sheet-top-coding-interview-problems/>
2. mycodeschool on YouTube for theory
3. Data Structure course by Adbul Baari - <https://drive.google.com/drive/folders/1oWslidwK8p9OAoTwHR035FplivliloUQF>
4. Crux Material - It has links of different sources for theory and questions

Your suggestion to help in the preparation

As the questions asked are easy, your approach and code matters a lot. Don't get excited about answering the questions, take your time and consider all special cases while engaging the interviewer.

While preparing, don't try to cover all possible questions. Rather give more time to understanding the concepts and playing around with its variations.

Name: Aparna Budhwar

ID Number: 2018B4A70857H

CGPA: 8.88

Role: SDE Internship

Recruitment Procedure:

First round- Algorithm-based problem, they first asked the brute force approach, and also discussed the optimized version.





Second round- Briefly went over the resume, asked conceptual problems based on OOP, DSA, and also asked a conceptual problem related to ML, since a project mentioned on my resume was related to ML/DL. The questions asked in this round were more about solving a real world problem statement by applying the cs concepts.

Important CDCs and Electives

DSA, OOPs and DBMS

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

I started preparing specifically for the SI during the summer break. I first made a list of important topics from DSA, and then understood the theory for each topic and worked on the problems related to that topic. For OOP, I briefly looked at some of the previous year slides, skimmed through complete references for a few topics, read the top 20/ 30 OOP questions and just made notes from all of these, to have the important info at one place. For DBMS I had my notes of the DBS course and briefly looked at a few important topics from the notes, went through mostly asked DBMS Interview questions. I focused more on DSA, and then on OOP/DBMS.

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

I think it's not that doing or not doing a specific kind of project is going to decide your selection. Other than the course projects, you can do projects related to your field of interest, or do projects to explore some field. With every project, you will definitely learn something, and all these learnings would surely be helpful for your career.

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

Getting comfortable with solving DSA problems and also explaining why the solution makes sense.

Sources to help in preparation

DSA theory:

DSA college course, Jenny's Lectures, GFK, Abdul Barri Lecture videos

(Different resources were helpful for different topics)

DSA implementation + problems:

GFK, LeetCode, Interview Bit.

OOP :





prev year slides, complete reference, online resources that give a summary of important OOP concepts/ mostly asked OOP topics

DBMS:

DBS college course notes + slides, online resources that give a summary of important DBMS concepts/ mostly asked DBMS topics

Your suggestion to help in the preparation

My suggestion would be to focus on understanding the DSA concepts and theory along with practicing different problems . For a specific company, you can focus more on the topics that the company generally asks. Try your best to implement the solution for any problem , think of different ways by which it could have been solved and even if you aren't able to implement it or the problem seems overwhelming , break it down and understand the logic and the approach . If there is a certain concept/logic that is a new to you and seems important , you can always work on that concept and get back to the problem/ explore similar problems. For OOP , DBMS just do the important/ mostly asked topics.

Most importantly, have self-belief , don't ever give up, be patient, and keep the faith.

Name: Yashika Chopra

ID Number: 2018B3A70894H

CGPA: 8.74

Role: Software Engineer

Recruitment Procedure:

I got selected through their mentorship program called Engage.'

HR round: It was an HR round. Typical HR round questions were asked - things I have written in my resume. Few questions were asked to test my technical skills and how I approach a problem.





Important CDCs and Electives

DSA, OOPs, DBMS

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

During the summer break, I used to practice a few questions from InterviewBit, LeetCode. I also had the Engage mentorship going on, so I couldn't do SI preparation that rigorously.

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

A clear understanding and ability to apply DSA, OOPs and DBMS concepts is necessary to crack the interview.

Sources to help in preparation

InterviewBit played a vital role in my selection.

Name: Saandra Nandakumar

ID Number: 2018B3A70843H

CGPA: 9.41

Role: SDE Intern

Recruitment Procedure:

I got selected through their mentorship program called Engage. Selections for Engage happened through a test. The mentorship program itself was for one month during which we were asked to make a video calling application

Interview Round: one interview was held, in which one DSA question was asked and apart from that mostly HR questions were asked like about my resume.





Important CDCs and Electives

DSA, DBMS

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

I started seriously preparing as soon as the summer break started. Firstly, I gave time to revise basic topics.

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

Don't be overwhelmed by the entire list of topics that needs to be completed. Give time to initial topics because they are important and try to understand the concept well. Find the right balance between completing topics and solving questions from previous topics. I used to practice a few questions from InterviewBit, LeetCode.

Sources to help in preparation

Leetcode and GFG were the most important parts of my preparation.

Your suggestion to help in the preparation

Keep an eye out for programs such as Engage or equivalent programs in other companies since you gain exposure to meeting people from the company, doing projects and can have a shortened interview process.

Name: Akshat Srivastava

ID Number: 2019A3PS0425H

CGPA: 8.45

Role: Software Engineering Intern

Recruitment Procedure:

Got shortlisted for an interview based on Engage Project

Round1 - This round was around the following link:

<https://leetcode.com/problems/longest-consecutive-sequence/solution/>

Round 2 - This round was around the following link:

<https://www.geeksforgeeks.org/flattening-a-linked-list/>





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

I started seriously preparing prior 3 - 4 months of the interview and made myself comfortable in DSA

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

Getting comfortable with solving DSA problems and also explaining why the solution makes sense.

Sources to help in preparation

Leetcode, Codeforces

Your suggestion to help in the preparation

As the questions asked are easy, your approach and code matter a lot. Don't get excited about answering questions, take your time and consider all special cases while engaging the interviewer.

While preparing, don't try to cover all possible questions. Rather give more time to understanding the concepts and playing around with its variations.

Name: Harshit Upadhyay

ID Number: 2018B4A30823H

CGPA: 7.4

Role: SWE Internship

Recruitment Procedure:

I was selected through Microsoft engage so there was one online test and after that, they gave us one project and then two interviews were conducted. In both rounds, questions were from DSA and discussion on the project that I did during Engage program





Important CDCs and Electives

DSA and OOPS

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

I started seriously preparing prior 3 - 4 months of the interview and made myself comfortable in DSA. Problem Solving and Good understanding of DSA and some experience of development might help if someone appears for Microsoft Engage

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

Getting comfortable with solving DSA problems and also explaining why the solution makes sense.

Sources to help in preparation

GFG and Codeforces were essentials for the preparation.

Your suggestion to help in the preparation

Good hold on DSA and going through previous interview questions on LeetCode helps in the interview.

Name: Zaeem Ansari

ID Number: 2019A7PS0057H

CGPA: 8.64

Role: SDE Intern

Recruitment Procedure:

2 rounds after completing the Engage Mentorship program which itself had resume shortlisting and an online test. Online test had conceptual DSA questions like explaining recursion to a layman, state of array after 3 iterations of insertion sort, etc. Both interview rounds were technical and DSA based with questions on topics like backtracking, n-ary trees and other misc topics.





Important CDCs and Electives

DSA, SE

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

Started seriously preparing during summer, mostly after Engage ended because I was too busy handling PS1 and Engage together. Started with GeeksforGeeks archives for Microsoft to get an idea of the level of questions Microsoft asks. Along with LeetCode for topics I felt I wasn't comfortable with. Didn't try to do very hard questions because Microsoft usually doesn't ask those.

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

For the interview rounds, it was mostly DSA. For the Engage mentorship project, we were supposed to make an MS-Teams clone. I did that using Node and Twilio API so Web development experience from the SE course came in handy.

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

The most important one was obviously the one I did during Engage. It was a web based application built using Node, HTML/CSS and Twilio API. Had video call and chat functionality with additional features like focusing spotlight on current speaker, typing indicator, seen/read receipt, discord-like channel functionalities, etc. I also had a MERN stack project from SE course but I wasn't asked anything about it.

Sources to help in preparation

GeeksforGeeks, Leetcode

Your suggestion to help in the preparation

Keep an eye out for Microsoft Engage Applications as getting into it makes it a lot easier to get an SI plus you get a really good project for your resume. It opens in around April with a relatively short time to apply.

I was also offered Technical Program Manager intern role (Product manager sort of) based on my resume. We had a meeting where we were told what TPM is and were required to select between SDE and TPM. I decided to stick with SDE but people who are interested in Product Management can also look into this.





Name: Yash Shah

ID Number: 2019A7PS0102H

CGPA: 7.4

Role: Software Engineer Intern

Recruitment Procedure:

In my recruitment process One coding and three technical interviews 2 based on DSA and one on AA. I was asked a basic DSA question in the first round along with OOPs concepts. Then in the second round, there was some experience discussion and a very abstract question to test logic skills. In the final round, I was asked to fully implement a linked list question and asked a few HR questions.

Important CDCs and Electives

DSA, OOPs, DBMS





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

I started during my PS1 and kept preparing till the interviews started. I finished InterviewBit path and started LeetCode problems. After understanding concepts, practice is essential to be able to solve questions in interviews.

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

DBMS and PS1 internship project were the main ones on my resume and I was asked basic questions on them.

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

Getting comfortable with solving DSA problems and also explaining why the solution makes sense.

Sources to help in preparation

LeetCode, InterviewBit

Your suggestion to help in the preparation

Apart from filling your resume with experiences and projects, the main thing to do would be to improve your DSA skills and learning to succinctly explain your solution approaches in interview.

Name: Vaibhav Jha

ID Number: 2019A7PS0132H

CGPA: 8.02

Role: SWE Internship

Recruitment Procedure:

1 coding test followed by three rounds of interviews.

The coding round had two questions; one each on arrays and trees.

The First Technical Round had two questions for me since I answered the first question on strings in 5-10 minutes. The second question was on DP, I knew I didn't know the solution to this question (I had seen it earlier) so I just gave a very dumb greedy solution and improved upon it throughout the interview without ever getting to the answer.





The Second Technical Round also had a string based question. I followed the usual procedure of explain pseudocode -> dry run -> discuss and make changes -> code -> run -> fix errors -> dry run -> run, everything went smoothly.
The Third Round was AA round. I was asked a question on linked list and some general HR questions.

Important CDCs and Electives

DSA, OOPs and DBMS

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

I had some prior experience from my first year but restarted coding and started prep after PS1 got over.

I solved primarily on Interviewbit.

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

Java project (part of DBMS course) , Web Development Project (part of SE course)

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

DSA topics: Strings, Arrays, Linked Lists, Trees

At least do the top 100 OOP and DBMS questions from GFG and all the questions of that company from Interviewbit before the interview.

Sources to help in preparation

LeetCode and InterviewBit for coding(can also follow Codeforces).

GeeksForGeeks for puzzles and previous year questions.

Your suggestion to help in the preparation

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. Java/ spring project would be an added advantage.





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Nvidia

Eligibility: B.E. CSE, ECE, EEE, ENI

CGPA Cut-off: 8+

Roles: Hardware Intern

Selects: 2

Selection Rounds: 2

Stipend: 50,000



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Name: Advika S

ID Number: 2019AAPS0225H

CGPA: 8.86

Role: Hardware Engineer

Recruitment Procedure:

1st Round: Written-test-

- A few basic and simple questions related to the C programming language
- Some questions related to digital electronics that needed a good understanding of flip flops, latches and gates
- 1-2 questions on basic analog electronics

2nd Round: Interview- A 45-minute interview in which 3 questions were asked.

- The first question was a puzzle that required good logical abilities. Candidates needed to be able to explain their solutions to the interviewer.
- The second question was related to programming. The candidate was asked to write a code to add and remove a node from a linked list.
- The third question was on digital electronics. It was related to flip-flops and needed basic knowledge of the DD course.

Important CDCs and Electives

DD, MPI, C language, Computer Architecture course

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

I started in mid-July during my PS 1. I was mainly doing DSA courses online and coding questions. This helped me with the programming questions and also to solve the puzzle in the interview round. I already had a good understanding of digital electronic courses. I revised all of them and did a few problems online on the taught topics before my exam.





What are some critical topics/skills essential for the process

1. Basic programming skills
2. Good understanding of digital courses
3. Good logical abilities

Your suggestion to help in the preparation

In addition to technical knowledge, it is advised to look into some puzzles online. This will give you some idea of how to approach such problems. In the interview, keep explaining your solution to the interviewer at every step as you go through it. Take some mock interviews if possible.





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oppo

OPPO

Eligibility: B.E. (all)

CGPA Cut-off: 7

Roles: Innovation Intern Trainee

Selects: 3

Selection Rounds: 2

Stipend: 60,000



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Name: Deva Sai Harsha

ID Number: 2019A7PS0012H

CGPA: 8.21

Role: Innovation Intern Trainee

Recruitment Procedure:

Project based questions and DSA related questions were asked.

Important CDCs and Electives

Computer Graphics , DSA , OS , DBMS.

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

OS , DBMS

What are some critical topics/skills essential for the process

Research Skills , Coding.



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Providence Global Center

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

CGPA Cut-off: 0

Roles: SDE

Selects: 2

Selection Rounds: 4

Stipend: 40000



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Name: Rohith Kumar Gattu

ID: 2019A7PS0049H

CGPA: 7.79

Role: Software Engineering Intern

Recruitment Procedure:

1st Round: A coding test: There were 2 programming questions asked which were leetcode medium to hard level. Also, 10 MCQs were asked which were based on fundamental core concepts of computer science like DBMS, OOPS, Computer Networks.

2nd Round: First technical interview [45 min]: Three questions were asked out of which 2 were programming questions and 1 was logical question. Logical questions can be practiced from gfg. 1 programming question was based on simple string implementation which was a medium level leetcode question. The other programming question was based on Dynamic Programming, medium leetcode question. I was asked to explain brute force first and implement the code after optimisation.

3rd Round: Second technical interview [50 min]: Completely based on my resume and CS core concepts. I was asked to explain my projects first and few implementational questions were asked from them. Then I was given a hypothetical situation of a hospital and asked to design a basic app in LLD(Low Level Design) classes and Draw ER Diagram for it. I opted Java language for it as I was comfortable with it for OOP concepts.

4th Round: HR Interview [approx 10 min]: I was asked to introduce myself and discuss my hobbies and my extra curricular activities.

Important CDCs and Electives

CDCs:

1. Data Structures and Algorithms
2. Object Oriented Programming in Java
3. Database Management Systems
4. Discrete Structures for CS





Elective Courses:

1. Software Engineering

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

I started preparing for Summer Internships from May in my 2-2. I started practicing questions from the DSA 450 sheet available on the internet which contains easy and medium level questions from GFG which covers almost all concepts that are necessary for Placements/Summer Internships. Then started practicing on interviewbit, leetcode and codeforces which helped me apply my concepts on various problems.

What are some critical topics/skills essential for the process

1. DSA
2. OOP
3. DBMS are very important.

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

I have worked on MERN Stack Project, Android Project, Flutter Project and a website. Experience in these projects helped me speak in the interviews and improve my confidence in concepts of cs.

Sources to help in preparation

1. Geeks for Geeks, leetcode, interviewbit, codeforces are great for learning and improving the problem solving ability.
2. Youtube channels like Aditya Verma, Gate Smashers etc.

Your suggestion to help in the preparation

Be very strong in your basic core concepts of computer science. They focus on solution complexity and the thought process behind using a particular data structure and not just the actual solution.

Name: Rijul





ID: 2019A7PS0182H

CGPA: 8.78

Role: Software Engineering Intern

Recruitment Procedure:

1st Round: The coding test involved simple questions that were based on Logic, aptitude and DSA.

2nd Round: The first interview round was to check your DSA skills. A simple question on arrays was asked in this round. The interviewer also asked about my interests.

3rd Round: This round was with the manager, who basically briefed me about how the company works and asked me about my projects.

4th Round: The last round was the HR round.

Important CDCs and Electives

DSA mostly, only one question was asked.

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

I started preparing from the beginning of May.

What are some critical topics/skills essential for the process

DSA (the basic concepts) and communication skills.

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

I did a project based on healthcare.

Sources to help in preparation

Interviewbit, Codebit

Your suggestion to help in the preparation

This is a healthcare based firm, so having projects which are healthcare based gives you a lot of edge over the others. Moreover, your confidence helps.





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Qualcomm

Qualcomm

Eligibility: B.E CSE,ECE,EEE,ENI

CGPA Cut-off: 7

Roles: Software Intern, Hardware Intern

Selects: 8

Selection Rounds: 2

Stipend: 45,000



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Name: Saransh Dwivedi

CGPA: 8.67

ID: 2019A7PS0173H

Role: SDE Intern

Recruitment Procedure:

1st Round: Online Test was MCQs types with questions related to basic DSA and mental ability.

2nd Round: The interview round had questions related to memory management, LinkedList, questions related to the projects I have done, and a few mental ability questions.

Important CDCs and Electives

DSA, OOP

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

I started preparing seriously after my PS 1. Practiced DSA questions on online platforms and went through some basic OOP and DBMS concepts.

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

Course projects in OOP, DBMS, and AI

Sources to help in preparation

GeeksForGeeks, Codeforces

Your suggestion to help in the preparation

Practice DSA and look through previously asked interview questions. They tend to ask similar questions.





Name: Sanket Bhatt

CGPA: 8.9

ID: 2019A7PS0147H

Role: SDE Intern

Recruitment Procedure:

1st Round: The test was primarily MCQs related to general C Programming, OOP, DBS, DSA, and some aspects of Digital Design, Networks, and Operating Systems. It had around 45 MCQs in 60 minutes - and was generally fairly intuitive. There weren't any DSA Coding questions or problem-solving questions and hence, a fair grasp of the concepts in CS CDCs was enough to get through the same.

2nd Round: The interview started off with a general introduction and the projects I did in my PS-1. It then moved on to some live coding. The questions here were again pretty intuitive and focused on the basics of C Programming. I was asked to code up a function to convert lower case letters to the upper case following which I was asked some pointer-related questions and the difference between post-increments and pre-increments. The interviewer also asked some basic OS questions (Threads vs processes, zombie processes, etc.) but didn't delve into that as I told him that OS would be taught that semester. The rest of the interview was mainly the interviewer explaining the team he worked in and what I would be expected to do if I got in along with any questions I had for him.

Important CDCs and Electives

To be fair - this is probably the one SI where you don't need to get into heavy DSA-oriented CC. However, I'd still say that DSA is your best friend throughout the whole SI drive. Besides that - just a very clear and firm grasp of the very basics of C Programming, OOP and DBS is an absolute must.

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

My answer to this is going to be slightly different from most people's. I actually did not have any ambitions to do an SI since I was hoping to graduate early with a PS. My





preparation with DSA was limited to the lab sheets in the courses for the past few years - and that was just something I did to ensure I was fresh in coding. For me, I did not really "want" an SI, so I wasn't preparing for it during my PS-1, so everything I learned came from just studying during the OOP and DBS course evals. I used to do pretty well in those courses - and so I just kept persisting with understanding the core concepts that those focused on.

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

OOP - I remember there were some questions on inheritance and classes etc.

DBS - There were some questions on B-Trees and Deadlock Avoidance

C Programming - The entire course. Everything from scopes and pointers to increment types. Cannot understate how important a super clear understanding of everything in that course will help you throughout the SI-Drive.

OS/Networks/Comp. Arch - A super brief understanding of the course and what it focuses on should suffice although I wouldn't say these topics are critical given most interviewers know that we haven't been taught them yet.

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

My PS-1 project was not related to my SI (or even development). So, I'd just say the course projects in OOP and DBS gave me something to talk about during the interview.

Sources to help in preparation

I'd say Geeks for Geeks, Interviewbit, LeetCode, etc., etc. Basically, any and every platform where you can solve CC questions and get MCQs on the courses mentioned above. I'd also highly recommend going through the DSA Labsheets of the past few years - they're super helpful if you're just starting off with DSA.





Your suggestion to help in the preparation

Speed and accuracy are super important in this process given that you won't be getting more than a minute per question in the test. I wouldn't recommend preparing for it explicitly, given your primary focus should be DSA. - but just keep revising the core concepts of other courses intermittently. For the interview - I'd just recommend being thorough in what you want to say and taking a few seconds to ask clarifying questions to ensure that you're concise and correct in your responses/coding output.

Good Luck:")





Name: Nayan Sharmai

CGPA: 7.84

ID: 2019A7PS0114H

Role: SDE Intern

Recruitment Procedure:

1st Round: Online Round - MCQs based on the following topics - Mental ability, DSA, OOP, OS. A total of 27 students managed to clear this round.

2nd Round: Interview - The interviewer first asked me about my DBMS project which was the implementation of the library management system. He then asked me to design an object-oriented model based on the project. About half the interview was based on the discussion on this model, like how can you optimize this, why did you use this particular class, etc. Then he asked some OS questions, and since we didn't study the subject at that time, he asked me to answer based on my general knowledge. Overall, the interview was easy. An HR interview was scheduled too but it was canceled at the last moment and all the students who cleared the first interview were selected. A total of 8 students were selected.

Important CDCs and Electives

DSA, OOP

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

I started preparing quite late, by the end of 2-2. I, with my 3 other friends, started solving Leetcode top interview questions and we regularly used to discuss the progress and ask doubts. Also, I started giving div 2 rounds on code forces which helped in developing speed.

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

OOP was the main focus of the interview. Basic knowledge about OS can be helpful.

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

Library Management System (DBMS)





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Sources to help in preparation

Leetcode is sufficient to crack any company in general. Solving 200-250 most asked interview questions will give you an idea about all the possible varieties. To revise OOP and OS, GFG would be enough.

Name: Vraj Gandhi

CGPA: 8.2



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ID: 2019A7PS0158H

Role: SDE Intern

Recruitment Procedure:

1st Round: The first round was an online test that had MCQ questions on DSA, OOP, DBS, C coding, Computer Architecture, and Operating Systems. There were also 3 DSA questions asked at the end. They seemed like the medium-level questions you get on Leetcode. I managed to solve all of them.

2nd Round: The second round was an interview round. The interview was supposed to last an hour, but my interviewer didn't show up so a temp was sent 20 minutes late. He asked me about the projects I had done till then. He then shared a HackerRank link which was a DSA question with an online editor that the interviewer could view as I typed. I solved that question with some help from the interviewer and that concluded the interview.

Important CDCs and Electives

DSA, DBS, OOP, CS F111

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

I started preparing in July during my PS1. I used to solve medium-level questions on InterviewBit. I would also give the code forces contests that were held from time to time.

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

DSA

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

I worked on web applications.

Sources to help in preparation

InterviewBit helped with the DSA questions. Reading Gururaj sir's slides for OOP and DBS is helpful for the 1st MCQ round.





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Name: Keshava Ranga Datta Rajavaram

CGPA: 7.97

ID: 2019A8PS0619H

Role: Software Intern



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Recruitment Procedure:

1st Round: A total of 60 MCQs were asked in this round. 20 MCQs were from aptitude, 20 MCQs were from Data structures and 20 OPP and OS questions were there.

2nd Round: It was a Technical interview. I was grilled on my resume. The questions asked were pretty simple, asked from topics like digital design and MPI.

Important CDCs and Electives

OOP and OS.

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

Started before 2-2 compre. Online roadmap followed by Interviewbit and interview prep course offered Edmad(Bitsian startup).

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

PS 1 project on computer vision. Facial recognition for security purposes.

Sources to help in preparation

Interviewbit and Leetcode.

Your suggestion to help in the preparation

DSA is a must. It would be helpful if you had one or two projects on your resume.

Name: Akhil Macherla

CGPA: 8.89

ID: 2019A7PS1211H

Role: Software Intern





Recruitment Procedure:

1st Round: The first round had some MCQ based questions.. Qualcomm was one of the first companies which didn't have a coding round as the first round (14th company of the SI drive). There were 2 sections - logical and technical. The logical round was akin to that of an Olympiad - the same type of questions such as 'next number in the pattern' or 'how is X related to Y'. The only enemy would be time management, as we weren't allowed to switch between rounds. The technical round was similar to a crash course of our most important CS CDCs - CS F111, OOPS, DSA, DBMS and a few on OS.

2nd Round: Interview 1 - The first interview started off with the recruiter asking me about my resume. After about 10 minutes of clarity on what I did and why I did it that way, we moved on to language specific questions. I had initially told him I preferred Python but was also familiar with C. After about 5 minutes of how Python methods worked, he switched to C questions. The one question I still remember is how malloc would be implemented conceptually from scratch, which I believe I hadn't explained accurately but he seemed engaged as I was explaining my ideas and offered hints here and there to guide me in the right direction. Near the end of the 50 min interview, he pulled up a few Hackerrank questions and asked me how I would approach these questions. If I recall, one was a simple linked list and the other was a DP. He seemed satisfied with that and concluded the interview.

3rd Round : Interview 2 - The second interview was less intensive and more focused on specific knowledge - pointers in fact. Most of the questions were on a level slightly higher than CS F111 and didn't pose much of a problem. My knowledge on how pointers, references and how they were passed via functions were tested. The interviewer was glad to offer assistance when I hesitated. This one went much smoother and took about 50 minutes as well.

We were told there would be a HR round, but then later were notified the company had decided the interns already and it wouldn't be required.

Important CDCs and Electives

CS F111, OOPS, DSA, DBMS





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

Started preparing seriously after PS-1 concluded, somewhere near the start of July. I initially used the Crux-PU repo (<https://github.com/crux-bphc/DSA-Training-2021>) to understand what topics I needed to study and the pace I had to go at. Practiced the problems linked in the repo and extra problems mainly on LeetCode which fell under the same domain. Having someone to practice with and make sure you follow a schedule regularly will help immensely.

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

While I had a few SDE projects, I was mostly quizzed on the ML project I had done. I was quizzed on what I had done and if there were any more efficient approaches, which I had answered satisfactorily.

Sources to help in preparation

1. LeetCode - practice
2. InterviewBit - practice
3. <https://github.com/crux-bphc/DSA-Training-2021> - good starting point.
4. GeeksForGeeks - in depth explanations and solutions.

Your suggestion to help in the preparation

Communication is key - try not to be nervous and convey your thoughts clearly and precisely. Recruiters may not be even looking for accurate answers, as long as your trail of thoughts is accurate. Be confident in your DSA skills, but don't ignore your CS basics - interviewers love them.

Name: Shambhavi Sabhahit

ID: 2019A8PS0486H

CGPA: 8.69

Role: Hardware Intern

Recruitment Procedure:

1st Round: Resume Shortlisting: based on CGPA



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2nd Round: Online Test: questions were split into multiple sections. Questions asked covered mental ability and logical thinking, basic C++ concepts, and digital design, and a few of them were related to operating systems and computer architecture. There was a choice in one of the sections to choose among digital design and communication.

3rd Round: Technical Interview: mainly focused on digital design concepts with a couple of questions from microprocessors and interfacing. As I had mentioned C++ in my resume, the interviewer asked me the algorithm to solve a few problem statements and explain the implementation of a few data structures. Apart from these questions, he asked for a detailed explanation of my PS-1 project.

4th Round: HR Interview: The HR manager asked for feedback about the interview and if I, as a candidate had any queries.

Important CDCs and Electives

Digital Design, Microprocessors, and Interfacing.

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

I started preparing during my PS-1. I began by learning C++ and basic DSA through online resources, as C++ or any programming language-based questions are quite often asked for technical tests, be it core or IT-based profiles. Along with practicing C++/DSA, I revised the course content for digital design and MPI. Looking up previous years' questions asked for internship/placement for this company helped too. As I had not yet completed operating systems and computer architecture as DELs by the time I had my interview, I read up about important topics for the same using online resources.

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





1. Working of Flip Flops -all types
2. Differences between the latch and flip flop working
3. Understanding State diagrams
4. Basic MPI concepts related to addressing etc.
5. A Basic understanding of the implementation of data structures
6. Have an in-depth understanding of the project mentioned in the resume

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

I had done my PS-1 project on smart agriculture. This was the major project I had in hand when I gave the interview. Explaining the tools used for the same and how the implementation was decided upon were the main questions asked by the interviewer.

Sources to help in preparation

1. Class Lecture Slides and videos -DD, MPI
2. GeeksforGeeks: previous years' questions, basic OS concepts
3. Leetcode for coding practice.

Name: Anushka Chaudhary

ID: 2019AAPS0393H

CGPA: 9

Role: Hardware Intern

Recruitment Procedure:

1st Round: Resume Shortlisting: based on CGPA

2nd Round: Online Test: The test had questions pertaining to topics we study in DD, ED, MEC, and some basic concepts.





3rd Round: The interview also included questions on these topics and some basic programming questions. The questions were asked based on what skills and courses you have mentioned in your resume.

4th Round: HR Interview: The HR manager asked for feedback about the interview and if I, as a candidate had any queries.

Important CDCs and Electives

Electronic Devices, CS F111, Digital Design, MPI, MEC.

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

I started preparing around the end of August. I revised the basics for the courses mentioned above and went through a few online sources as well to get a better understanding.

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

All the courses I have mentioned above are important. Apart from this, you should be able to communicate your thinking process and logic for each question well.

Sources to help in preparation

Class notes and slides, GFG, Other online sources

Your suggestion to help in the preparation

Be well-versed in all the basic topics covered in the relevant courses you have taken. Make sure you know in detail about everything(project/course/skill) that you have mentioned in your resume.





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Salesforce

Eligibility: B.E. Computer science

CGPA Cut-off: 7

Roles: AMTS (Associate Member of Tech Staff)

Selects: 1

Selection Rounds: 4

Stipend: 90,000





Name: Anuradha Pandey

ID: 2019A7PS0265H

CGPA: 9.32

Role: AMTS (Associate Member of Technical Staff)

Recruitment Procedure:

1st Round: (Online coding round): The first round was an online coding round conducted on Hackerrank. It consisted of 3 coding questions (1 math and 2 DP questions), based on DSA, to be solved in 90 mins.

2nd Round: This round was conducted the next day of the coding test. It lasted for nearly an hour. This was a code-pair round. The interview started with a few basic questions on strings - reversing a string and different approaches. The next question was to remove duplicate elements from an array in the least time possible. The next question was decoding a Roman number encoded in a string to a number. For example, decoding "XII" to 12. In the end, she asked me to mirror a binary tree. After these questions, I was asked to write a SQL query to remove duplicate rows from a database. Next, I was asked to write a pseudo-code for Quicksort. Then we had a detailed discussion about an OOPS project that I had done and how I incorporated different OOPS features (Encapsulation, Inheritance, Polymorphism, and Abstraction) into my project. She also asked me about the different layers of a mobile app and the different coding practices I follow. Lastly, the interview ended with a question based on designing a database, such that there's a hierarchy in the data that is being stored — for example, designing a database for developers, senior developers, managers for developers, and so on. I explained my approach using normal forms to reduce the redundant data and also mentioned integrity constraints that would be used.

3rd Round: (Technical Interview 2): The interview started with a brief introduction of the interviewer and myself. Then he asked me about different data structures and what we'd use in different scenarios. Then I was asked about deletion in a singly and doubly linked list. Next, we moved to the code pair on Hackerrank.





The first question asked to me was a DP question. The question was <https://www.geeksforgeeks.org/find-length-longest-subsequence-one-string-substring-another-string/>. I could write one of the conditions correctly, whereas the second was wrong. However, the interviewer helped me, and I could code the solution using tabulation. This was the only question that I was asked to code. Later, I was asked for a similar puzzle, with 9 balls and a minimum number of steps — <https://www.geeksforgeeks.org/puzzle-8-balls-problem/>. Then we had an in-depth discussion about my projects and how I used DBMS and OOPS concepts

4th Round: (HR Round): 5 candidates were shortlisted after the second technical interview. My HR round was conducted with a senior engineer manager of Salesforce. We briefly introduced ourselves and asked each other a couple of follow-up questions based on the introduction. This round was very personal, and I answered all the questions very calmly. A couple of questions that I was asked were –

- What do I miss the most about an offline semester?
- How do I plan my schedule for the week?
- What are my strengths/ weaknesses?
- I was asked two situation-based questions –
- If my project changed, how would I quickly adapt to the new team & project?
- How would I respond to teammates who are not very supportive and helpful?
- What do I like the most about Salesforce?

Important CDCs and Electives

Core CDCs of CS - mainly OOPS and DBMS were extremely helpful. The projects of these 2 courses were also informative since there were questions related to App and Web Development.

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

I started preparing seriously and consistently right after my 2-2 compre (~May). I solved questions mainly from Leetcode and sometimes from Geeksforgeeks. I also used to solve the company's previous year's coding and interview questions from Geeksforgeeks and other websites. I started revising OOP and DBMS a week before the SIs started.





What are some critical topics/skills essential for the process

In depth-knowledge of DSA, DBMS, and OOPS (especially writing SQL queries) are very important. Practicing a few puzzle questions after you get shortlisted will also be helpful. Clear and effective communication is also very important.

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

I had mentioned course projects (OOPS - android dev, DBMS - web dev) on my resume, along with 2 ML projects (my GSoC project and a personal project). The interviewer seemed interested in my GSoC project although that wasn't related to the role. Other than that, I was asked questions on my OOP course project.

Sources to help in preparation

Leetcode, Geeksforgeeks

Your suggestion to help in the preparation

Focus on DSA, and writing clean code. Also, have a sound understanding of DBMS and OOPS. The interviewers were very helpful and made me feel comfortable. Communicate your thoughts confidently and effectively with the interviewer. Ask for help, whenever you feel stuck.





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Hyderabad Campus



Schrödinger

Schrodinger

Eligibility: B.E. (CS only)

CGPA Cut-off: 0

Roles: SDE

Selects: 2

Selection Rounds: 3

Stipend: 150,000



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Name: Prakhar Agarwal

ID: 2019A7PS0174H

CGPA: 9.53

Role: Associate Developer Intern

Recruitment Procedure:

1st Round: There was an initial coding round involving DSA (leetcode medium questions).

2nd Round: OOPs and DBMS questions were asked.No DSA questions were asked.

Important CDCs and Electives

DSA,OOPs and DBMS

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

Started preparing during PS-1. Gave Codeforces contests and also practiced on Interview Bit.

What are some critical topics/skills essential for the process

1. Should be able to write code explaining different concepts of OOPS and DBMS.
2. You should be comfortable with CF Div2 B-C.

Sources to help in preparation

Interview Bit





Name: Namit Negi

ID: 2018B3A7PS0905H

CGPA: 8.57

Role: Associate Developer Intern

Recruitment Procedure:

1st Round:

It was a Coding Round.

1. There were 2 coding questions asked in this round.
2. The 1st question was based on Flows and the 2nd one was some sort of a Graph Question.
3. The questions were difficult and doing even 1 of them guaranteed a selection

Technical Interview:

1st Round:

1. The entire round was based on DSA. I was asked 3 coding questions and 1 puzzle.
2. The first question was on Trees where I had to add links between the nodes of the trees (at the same depth) from left to right. The solution required a BFS approach but managing the pointers was a bit tricky.
3. The second question was a basic question on Linked List reversal.
4. The third question was an interval scheduling question. This was again pretty simple.
5. The interviewer asked me to code questions 1 and 3 whereas he only wanted the approach for the 2nd question.

2nd Round:





1. The entire round was based on OOPS and DBMS. I was asked to create a class and then using that I had to explain the major principles like Encapsulation, Abstraction, Polymorphism. Most of the questions were based on the real world usage of these principles. I was later asked 2-3 questions on DBMS. One of them was on View Serializability. I was finally given a Puzzle to solve.
2. No questions were asked regarding my projects in both the rounds.

Important CDCs and Electives

DSA , OOPS and DBMS

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

I mostly focused on DSA and got started with Competitive Programming in January. I used to regularly give contests on Codeforces and later did questions on Interviewbit from June.

I had no PS during this time so I focused mainly on Problem Solving.

Practiced OOPS 1 week before the SI drive and relied mainly on youtube videos to understand it.

Since I had DBMS in my 3-2 I remembered most of the concepts. I revised it 1 day before the 2nd Interview

What are some critical topics/skills essential for the process

Topics: DSA , OOPS and DBMS

You need to have a strong grasp on all the concepts. You need to be really good with DSA to clear the coding round.

Don't ignore OOPS and DBMS as the last round is entirely based on it.

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

I only had the OOP and DBMS course project on my resume.

Sources to help in preparation

Codeforces and Atcoder (For Coding Round)

Leetcode and Interviewbit (For interviews)

CodenCode YouTube channel(to learn DSA concepts)

YouTube Videos and GFG (For OOPS and DBMS)





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Your suggestion to help in the preparation

Focus mainly on DSA and Competitive Coding as clearing the coding round without CC is difficult.

1-2 weeks should be enough to revise all the OOP and DBMS concepts so prioritize DSA over this.



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ServiceNow

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

CGPA Cut-off: 7.0

Roles: SDE

Selects: 9

Selection Rounds: 4

Stipend: 70,000



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Name: Hritish Jain

ID: 2019A3PS0356H

CGPA: 8.59

Role: Software Development Intern

Recruitment Procedure:

1st Round: Online Assignment. In the online assessment, easy to medium level coding questions were asked, objective questions on DBMS OOPs and DSA were also asked.

All the remaining 3 rounds were interview rounds.

Important CDCs and Electives

I did an informal project in my 2-2 about which I was constantly asked questions. No academic courses came in handy as such.

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

During PS-1 mostly. My PS station was one of those which actually gave work, and A LOT of work to be honest. It became difficult to prepare as 3-4 days would go in learning and completing the assigned work. However, if you are from a non-CS branch then your PS actually becomes important as you get a good talking point. Consistency was the key. No matter what happens, solve 3-4 questions daily. I practiced InterviewBit topic buckets and Leetcode easy medium questions.

What are some critical topics/skills essential for the process

Since 6-8 questions were asked in each round, almost every topic was tested (just DFS and BFS in graphs). Scratch implementation of data structures were asked and OOPs concepts were tested as well. Being able to explain the code-flow was an important aspect of the interviewers' evaluation criteria.





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

I did a Data Science + economics project in my 2-2 which was the only project in my resume. They asked me about the problems I faced on my part and how I solved them.

Sources to help in preparation

A good read for theory resources (probably the most exhaustive)

<https://anubhavsinha98.medium.com/resources-to-master-data-structures-and-algorithms-24450dc6d52b>

1. LL - <https://leetcode.com/problems/add-two-numbers/discuss/1340/A-summary-about-how-to-solve-Linked-List-problem-C%2B%2B>

2. Trees -

<https://leetcode.com/list/xfmrhma2/>

BFS - <https://leetcode.com/list/xfmpx45v/>

DFS - <https://leetcode.com/list/xfmp5ghj/>

3. Stacks & queues - IB bucket

4. Backtracking - <https://leetcode.com/list/xlere2g3/>

5. Bit manipulation - <https://leetcode.com/problems/sum-of-two-integers/discuss/84278/A-summary%3A-how-to-use-bit-manipulation-to-solve-problems-easily-and-efficiently>

6. DP - <https://leetcode.com/list/x1k8lxi5/>
<https://leetcode.com/list/5vh6vsuv/>

8. Graphs - <https://leetcode.com/list/xfmr1lw7/>
<https://leetcode.com/discuss/study-guide/1326900/graph-algorithms-problems-to-practice>

Your suggestion to help in the preparation

Be thorough with your resume and be confident during the interviews.





Name: Marreddy Durga Abhinav Reddy

ID: 2019A7PS1345H

CGPA: 8.42

Role: Software Development Intern

Recruitment Procedure:

1st Round: Online round (1 hour) consisted of 13 MCQs on DSA, OOP, DBMS and 1 coding question - No. of strings of length N made of x, y, z containing up to 2 consecutive z's. Can contain max. of 1 y and any no. of x's and z's

2nd Round: In the 1st Interview (45 min), 1 DSA question was asked - Max no. of events that can be attended. DBMS questions on normal forms were asked. Questions related to PS1 were also asked

3rd Round: Second interview (1 hr) started with a HR question - where do you see yourself in 5 years. We then moved on to technical questions. 1 DSA question - Reverse a linked list k nodes at a time and OOP questions on interfaces was asked

4th Round: Third interview (45 min) started with a few theoretical questions on trees. Then a simple coding question was asked, the gist of it was to handle overflows by using long instead of int. Then level wise printing of binary tree was asked

Important CDCs and Electives:

DSA , OOP , DBMS





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

Started during the beginning of PS1. I used InterviewBit and solved questions topic wise in it. After covering all the topics in it, I solved a few questions in Leetcode and Codeforces as well.

Revised class notes for OOP, DBMS before any interviews or any tests having MCQs on these

What are some critical topics/skills essential for the process

Sufficient practice in coding

Good understanding of OOP, DBMS

Clearly communicating your answers and explaining your code

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

Course projects of OOP and DBMS. PS1 project related to web scraping and ML

Sources to help in preparation

InterviewBit

Leetcode

GFG

Codeforces

Your suggestion to help in the preparation

Revise OOP, DBMS before the online test since MCQs based on that are asked.

During the interview, think well before answering any theoretical question

Explain brute force approach first and then try to optimize it. Talk out your thoughts from time to time while trying to find an optimal solution instead of sitting quietly.

Explain what you are doing as you code along

If you are not able to solve the question completely, try your best and don't give up.





Name: Adarsh

ID: 2019AAPS0328H

CGPA: 7.95

Role: Software Development Intern

Recruitment Procedure:

1st Round: Online Coding Round: There were 15 MCQs based on cs concepts like dsa, dbms etc and 1 coding question based on recursion that we had to solve in 1 hour.

2nd Round: 1st Technical Interview: The interviewer started off by asking me about the difference between margin and padding because I had mentioned web development in my resume then he went straight into DSA and asked me 2 questions related to DP and Kadane's Algorithm.

Q1)<https://leetcode.com/problems/coin-change-2/>

Q2) This question involved calculating the sum of elements that fell in a sliding window of fixed size.

After I coded each question he asked follow up questions regarding time complexity and corner cases etc.

3rd Round: 2nd Technical Interview: Two DSA questions were asked

Q1)<https://leetcode.com/problems/excel-sheet-column-number/>

Q2)<https://leetcode.com/problems/swapping-nodes-in-a-linked-list/>

The first question was very standard so it did not take a lot of time but for the second question i spent a lot of time cross-questioning him about the corner cases. There was still some time left so the interviewer started asking me about OOP concepts.

4th Round: 3rd Technical Interview: This round was the least rigorous the interviewer spent the first 15 minutes just talking to me. The questions in this round were very easy





Q1) A basic program to calculate distance traveled by a ball after n bounces that was losing $x\%$ height every time it bounced.

Q2) Level order Traversal of a Binary Tree.

Important CDCs and Electives

I had not done any CS elective but taking DSA and OOP can be advantageous.

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

I learnt C++ in my 2-2 but started preparing for DSA just before my PS-1.

Watched youtube videos related to the data structure or the algo I want to learn and then went on leetcode/gfg to solve questions related to that topic.

What are some critical topics/skills essential for the process

Their main focus was DSA.

Sources to help in preparation

Leetcode problems and contests

Striver's SDE sheet for Interview questions <https://takeuforward.org/interviews/strivers-sde-sheet-top-coding-interview-problems/>

Github repo provided by PU during the training period

Weekly contests on codeforces organized by PU and Crux

Geeksforgeeks

Your suggestion to help in the preparation

Focus on DSA more than anything. Solve as many questions as you can and attend regular contests on sites like Leetcode and Codeforces.





Name: Dravyansh Jain

ID: 2019A7PS0063H

CGPA: 8.26

Role: SWE Intern

Recruitment Procedure:

1st Round: Online coding round: 1 question based on Dynamic Programming + 10MCQs.

2nd Round: 1st Technical round: 3 questions from DSA/CC (topics: Math, Trees and Graphs) + 1 from DBMS (Normalization).

3rd Round: 2nd Technical round: Questions asked were similar to those asked in the first round but with increased difficulty. 3 questions from DSA: Arrays, Trees + 1 question from DBMS: Normalization

4th Round: HR round- With the skill testing completed in the technical rounds, HR round was pretty casual. Few general questions regarding CS, and a tricky puzzle question was also asked.

Important CDCs and Electives

DSA (Data Structures and Algorithms)

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

I started preparing from 2-2 seriously by solving all my DSA Labsheets (10 labsheets each containing 10 questions), then in summer break (during PS1) I started solving questions from InterviewBit and Leetcode

PS: InterviewBit is very helpful for giving questions in topic wise order and Leetcode for variety of questions

What are some critical topics/skills essential for the process

Topics like Trees, DP, Arrays are very important in DSA and Theoretical Knowledge from DBMS





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

DBMS Project

Sources to help in preparation

InterviewBit (<https://www.interviewbit.com/courses/programming/>)

Leetcode (<https://leetcode.com/problemset/all/>)

Your suggestion to help in the preparation

You need to be confident in whatever knowledge you have. Going through the role criteria beforehand will also be very beneficial.





Name: Simhadri Surya Kiran

ID: 2019A7PS0014H

CGPA: 8.01

Role: SDE

Recruitment Procedure:

Questions based on Dynamic programming, greedy, sorting. one DSA question was asked in the qualification round along with few os,oops mcqs . It's a DP question.

First and second interview questions are technical and easy medium questions were asked.

Third round was HR. It's mostly about resumes and projects. PS1 project and oops project are mainly focused on my HR round.

Important CDCs and Electives

DSA, OOP, DBMS

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

During my PS1 I started my preparation. I started with an interview bit and then moved to leetcode.

What are some critical topics/skills essential for the process

Mostly DSA skills can save you. Oops and DBMS questions were asked in interview round

Sources to help in preparation

Interview bit, leetcode, geeksforgeeks





Name: Nishant Kumar Rai

ID: 2019A8PS0583H

CGPA: 8.74

Role: Software Development Intern

Recruitment Procedure:

1st Round: The coding round consisted of one DSA question which required a combination of recursion and string topics. Also, there were some MCQs mainly oriented around DSA but had a couple of questions from DBMS and OS.

2nd Round: In the first technical interview, I was asked to implement the algorithm of UrbanCompany which was basically the implementation of the greedy algorithm. He made some modifications to the question and expected the code to be changed accordingly. In the end he gave me around 5-6 test cases to check my code. The interview lasted about over an hour

3rd Round: In the second round, standard questions related to stacks and trees were asked. I was asked to reverse the words of a sentence (<https://www.geeksforgeeks.org/program-to-reverse-words-in-a-given-string-in-c/>) in the most optimal way and was also asked to print the left view of a binary tree (<https://www.geeksforgeeks.org/print-left-view-binary-tree/>). The interviewer also asked me to tweak the code for printing the right view. He also asked me if I knew DBMS to which I said no.

4th Round: The final round lasted for about 20 minutes. I was asked to print all the combinations of a given string (<https://www.geeksforgeeks.org/write-a-c-program-to-print-all-permutations-of-a-given-string/>) which required the application of backtracking. Finally the interviewer asked me about my PS-1 project and concluded the interview.





Important CDCs and Electives

None (Although taking DSA might be helpful)

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

I started my preparations at the beginning of my PS-1. I practiced questions from LeetCode (mainly of medium difficulty), gfg and gave contests regularly on Leetcode (This is really very important) and sometimes on Codeforces.

What are some critical topics/skills essential for the process

Good knowledge in DSA

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

The PS-1 project was the only one on my resume. (PS: Please take PS-1 seriously, especially if you haven't got any better projects to add)

Sources to help in preparation

Leetcode (Both problems and contests)

Geeksforgeeks (Mainly for standard questions and algorithms)

Striver's SDE sheet (The best possible source for interview prep)

The SI training program by PU also gave a good practice just before the SI drive

Your suggestion to help in the preparation

Getting selected for ServiceNow is pretty doable. Just be strong with the basics and have good practice by giving contests regularly. Move on to improving other concepts like OOPS, OS and DBMS only after having a good grip over DSA. Be straightforward and to the point during the interview process and keep communicating your thoughts with the interviewer throughout the interview process. Don't hesitate in taking help from him/her and be thorough with the topics and projects on your resume.





Name: Kshitij Upadhyay

ID: 2019A7PS0105H

CGPA: 8.95

Role: Software Development Intern

Recruitment Procedure:

Test had 1 coding question + a few Computer Science + mental ability questions. There were 3 rounds of interviews. First two were coding rounds(almost all questions were from interviewbit), and followed by the final and third round in which ML based questions were asked. In this last round itself I was asked some questions about my project as well.

Important CDCs and Electives

DSA, OOPS, OS, DBMS

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

May, after the comprehensive exams

What are some critical topics/skills essential for the process

DSA

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

I don't think the project really mattered.

Sources to help in preparation

I found InterviewBit extremely helpful. It has a limited number of questions and is enough to practice all topics. However I advise candidates to practice questions on cc platforms. This will help them with their speed, and will also increase their level of problem solving.





Name: Abhinav Bhattacharjee

ID: 2019A7PS0109H

CGPA: 9.01

Role: Software Development Intern

Recruitment Procedure:

In the coding round there was 1 dsa based medium question and 15 mcqs.

In the interviews questions based on binary search, linked lists, strings and arrays were asked. Dsa concepts like heap, map complexity and implementation and OOPs and DBMS questions were also asked.

Important CDCs and Electives

OOPs, DBMS, DSA

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

I started a little late in June. I first referred and solved the DSA training github repo made by crux and then moved on to interviewbit in July. Strivers SDE sheet is also a good place to start.

What are some critical topics/skills essential for the process

OOPS, DBMS , DSA are required.

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

I had made an android app for my OOPs project and a Java+Mysql project for a DBMS course. Apart from that I had also taken an ML course in my 2-2.

Sources to help in preparation

Crux github repo, InterviewBit, Striver's SDE sheet.





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Your suggestion to help in the preparation

Start preparing as early as possible April/May . The interviews are pretty straightforward and the interviewers also guide us, just be confident and explain your thoughts.



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Name: Jay Patel

ID: 2019A7PS0156H

CGPA: 8.35

Role: Software Development Intern

Recruitment Procedure:

1st Round: Online Test (60 min) consisted of 15 MCQs of DSA/OOPS/DBMS and 1 DSA coding question based on DP.

2nd Round: In the first interview (1 hr), two questions on DSA were asked. The first question was to rotate an $N \times M$ matrix by 90, 180, and 270 degrees. The second question was to convert an integer to a Roman number.

3rd Round: In the second interview (30 min), two questions on DSA were asked. The first question was to perform a binary search in a rotated array. The second question was to print all the anagrams together from a given list of words. Other than that, some basic questions about DBMS/OOPS were asked.

4th Round: The third interview was an HR interview (30 min). HR asked about my projects. After that, he asked me to find the time complexity for the Tower of Hanoi using recurrence relation.

Important CDCs and Electives

Data Structures and Algorithms, OOPS, DBMS

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

I started preparing during the summer break after 2-2 i.e. around the last week of May. I started solving questions on Interview Bit, LeetCode, and GFG. I used to prepare with a friend of mine, who also got an internship in ServiceNow. Discussing with someone really helps a lot in getting concepts clear and you get to know new things.





What are some critical topics/skills essential for the process

Be thorough with C++ STL and how it works. You should be good with DP. Be clear with the OOPS and DBMS fundamentals.

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

1. OOPS Project (Android Development)
2. DBMS Project (Web Development using Flask, MySQL)
3. PS-1 Project (Web Development using MERN stack)

Sources to help in preparation

Interview Bit

LeetCode

GFG

CP Algorithms

Aditya Verma (You tube channel for DP)

Your suggestion to help in the preparation

Keep good communication with the interviewer. Be confident and clear about your approach. Be thorough through your projects.





Birla Institute of Technology & Science, Pilani
Hyderabad Campus



Silicon Labs

Eligibility: B.E. ECE, EEE, ENI

CGPA Cut-off: 0

Roles: Application Intern

Selects: 1

Selection Rounds: 3

Stipend: 21,000



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Name: Lakshmi Mounika Chaturvedula

ID: 2019A8PS0621H

CGPA: 8.48

Role: Application Intern

Recruitment Procedure:

1st Round: Online Test

50 Questions related to the basics of Electrical Sciences(RC Analysis), Digital Design, Micro Electronic Circuits(related to finding gain, output), Communication Systems(finding bit rate and information rate), IoT, C Programming output-based questions, and some puzzle-based questions for a duration of 45 min.

2nd Round: Technical Round 1

The interview started off with the discussion of the courses that I have done, and questions were majorly asked from the areas of Digital Design, Microprocessors, Digital Communication(since I have done the course and a project related to it), IoT, Programming based questions related to arrays, Dynamic Memory Allocation in C, and some OOP, OS related questions(advantages over procedural programming, CPU scheduling). Since I had done FPGA based System design lab he asked me questions related to FPGA and Verilog. Then, the rest of the discussion was about the projects that I have done and I think they played an important role in my selection the whole interview lasted for 35 min in Zoom

3rd Round: Technical round 2

I was interviewed by the Senior Director of the company, and it started off like a normal discussion where he asked me about the role and what I know about the company, my areas of interest, etc. Then he asked questions related to them and some of the very important concepts like Bit Error Rate and the necessity, Interference, and Multi-Path Fading. He asked me some questions related to IoT(which I felt just to make sure that I know the basics of it), as the company majorly works in the integration of IoT and wireless areas. For a question related





to any wireless device, I chose Bluetooth and explained its working, and the challenges that are faced as the distance from the device to use increases. Lastly, it ended with a question where I had to design a system where a bulb has inside has to switch on when there is no light outside, and if there is any light it should be off and it has a photoresistor sensor that detects light from outside.

Important CDCs and Electives

C Programming, Electrical Sciences, Digital Design, Micro Electronic Circuits, Digital Communication, FPGA Based System Design Lab, IoT

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

I started preparing in the mid of 3-1 and revised the topics whenever I got time.

What are some critical topics/skills essential for the process

The clarity in the basics of the above-mentioned subjects is important, especially in Digital Design Electrical Sciences, Microprocessors, IoT, and C Programming.

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

My PS-1 Project is related to IoT, which was helpful to me because I understood the basic concepts of it, and different communication protocols UART, SPI, and I2C even though I haven't done the course.

I did a project related to Beamforming which finds its applications in the areas of 5G these days and it was very much helpful not only during selection but also gave me an insight into how antennas work.

Sources to help in preparation

Class Notes and Lectures for CDCs, NPTEL Videos for some additional concepts in Electronics.





Your suggestion to help in the preparation

It would be good if you delve deeper into different areas of Electronics like Communication, IoT etc(not limiting to analog and digital alone even though most core companies that visit our campus would be for these roles) as that gives you a slighter edge for having a good discussion in the interview provided if you have an interest. Going through the company's website gives you a brief idea about what they are working on and it is necessary before any technical interview as that gives you a chance to explain why you are truly interested in the role.

Utilize your PS-1 time for doing something productive, like brushing up on your concepts as you might not get that much free time again and last-minute preparation is never suggested. Nevertheless don't ignore your PS1/ any formal or informal projects that you are doing as they are really helpful in taking a discussion forward.





Birla Institute of Technology & Science, Pilani
Hyderabad Campus



Texas Instruments

Eligibility: B.E. (all)

CGPA Cut-off: 7

Roles: Digital Design Intern

Selects: 2

Selection Rounds: 2

Stipend: 45,000



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Name: Anantha Sai Satwik Vysyaraju

ID: 2019A3PS1323H

CGPA: 9.11

Role: Digital Design Intern

Recruitment Procedure:

1st Round: There was only one technical round, and mostly the questions were based only on Digital Design, Verilog. They might touch up some questions from other topics or courses if you have mentioned any in your resume.

2nd Round: Round 2 was an interview round, really basic questions related to Digital Design were asked followed by a half-hour discussion on my resume.

Important CDCs and Electives

Digital Design, Analog & Digital VLSI design, FPGA Lab for Verilog, Microprocessors and Interfacing, Computer Architecture

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

I started my preparation at the beginning of July.

I started my preparation by revising the basics of Digital Design, basic CMOS circuits, MPI, C programming, and basic electrical sciences.

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

The critical topics for me were CMOS logic circuits and CMOS inverters, basics of digital design, like counters, State machines, and basics of Digital logic implementation. Reading the Morris Mano Textbook gave me an edge here.





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

I had a project from my PS 1 Station based on sensor development, but I don't think it directly contributed anything to my interview. But I believe that having brief knowledge of the project and explaining it to the interviewer helps him understand how much you are involved in the project.

I also did an introductory course called "NAND to Tetris," a project-oriented course that guides us in implementing a primary processor.

Sources to help in preparation

Digital IC logic design by IIT Madras for basics of ADVD. Not the complete course but the first few lectures on CMOS at least,

Basic GATE questions on Digital Design,

Verilog Course by IIT KGP.

If you are free enough, you can try learning basic computer architecture.

Your suggestion to help in the preparation

If you are good with your basics, then you are OK to go.

Make sure that you have your concepts ready with you if you can explain to them the idea for the question that you might doubt in, and they will help you in moving forward in the questions.





Name: Shreya Gupta

ID: 2019A8PS1310H

CGPA: 8.61

Role: Digital Design Intern

Recruitment Procedure:

1st Round: Online test. Questions were majorly from DD and MPI, and some questions on programming basics and Verilog were also asked. The aptitude section had basic questions on pattern recognition, series, etc.

In the interview round, questions involving mux, decoders, and sequential circuits were asked, majorly what is covered in the DD course.

2nd Round: Technical Interview and HR. Shortlisted students were called upon for an interview, where technical questions based on their resumes and the role offered were asked.

Important CDCs and Electives

Digital Design, Microprocessors and Interfacing, C programming

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

I started preparing seriously right after the SI season started.

I started with the courses necessary for roles that come for core, mainly DD and MPI. Practiced questions from the course syllabus and a few questions that were asked in previous year's interviews are readily available online.

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

Sequential Circuits, basic blocks of circuit design in DD, microprocessors basics





Name: Abhishek Revinipati

ID: 2019A3PS0415H

CGPA: 9.45

Role: Digital Design Intern

Recruitment Procedure:

1st Round: Written Test mainly consisted of Basic questions related to Digital Design, Computer architecture and MPI.

2nd Round: Round 2 was an interview round, really basic questions related to Digital Design were asked followed by a half-hour discussion on my resume.

Important CDCs and Electives

Digital Design, MPI, Comp Arch, Some parts of ADVD.

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

I started preparing very late, around 1.5 weeks before the Interviews started. I was already very familiar with Digital Electronics and Computer Architecture, so my preparation mainly consisted of solving Gate questions, checking interview questions and trying to answer them.

I skimmed the Morris Mano textbook and focused on solving questions fast. Apart from that, I covered STA and CMOS Inverter topics from online resources.

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

For the written round, most of the questions were from DD. STA was very important as a good chunk of the questions are from this topic. Apart from this, basic DD course material was important.





For interviews, most of my interview was based on my resume, and questions about my internships and my projects were asked. I wasn't asked many questions apart from this.

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

Various Verilog-based projects like IEEE Floating Point ALU and Ping-Pong on an FPGA were very helpful. I also had a pipelined RISC-V core and a trace-based cache simulator that was very helpful.

Sources to help in preparation

1. Morris Mano Textbook
2. Gate Questions - <https://questions.examside.com/past-years/gate/gate-ece>
3. IITM Digital IC Design - <https://www.youtube.com/watch?v=pl0pLx6oPd8&list=PL3pGy4HtqwD1X9CXdgXMTVGjb7rYd-qr6>
4. Chetan Sir Comp Arch lectures
5. STA - <http://www.vlsi-expert.com/p/static-timing-analysis.html>

Your suggestion to help in the preparation

Focus on your basics, go through a lot of interview questions through websites like glassdoor.com or other SI chronicles. All the best!





Name: Ojusteja Dhoti

ID: 2019A3PS0471H

CGPA: 8.14

Role: Digital Design Intern

Recruitment Procedure:

1st Round: In the Written-test round, they mostly focused on:

- 1)STA(more weightage)
- 2)Verilog basics and some digital Design questions like counters.
- 3)8086 simple instructions and some aptitude questions.

2nd Round: During the Technical interview round, they asked fundamental questions about :

- 1)FSM
- 2)Difference between Jhonson Counter and modulo-n- counter.
- 3)Difference between CISC and RISC processors.
- 4)Implementation of Combinational circuits with MUX and some more.

Important CDCs and Electives

They mainly focused on

- 1)Digital Design and Verilog
- 2)Static timing Analysis
- 2)MPI
- 3)Basics of Control System(Importance of closed Loop feedback).

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

During PS-1, I started my preparation by taking guidance from my seniors.





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

Revising old topics and trying to solve more problems.

Sources to help in preparation

Verilog:

https://www.youtube.com/watch?v=FWE0-FOoE4s&list=PLUtfVcb-iqn-EkuBs3arrelxa2UKIChI&ab_channel=KNOWLEDGETREE or You can read verilog hdl samirpalnitkar book

Digital Design: Morris Mano Digital Design and lectures, tuts.

MPI and Control Sys: Class slides are enough.

Your suggestion to help in the preparation

Be strong in digital design basics and Verilog and always revise concepts. Try to revise all the slides before your interview. Be confident and try to answer something during the interview.





Name: Naren Vilva
ID: 2019AAPS0236H
CGPA: 9.15
Role: Digital Engineer Intern

Recruitment Procedure:

1st Round: Online Written round - This round consisted of 30 MCQs and a few fill-in-the-blank questions. Many questions came from sequential circuits involving latches, flip-flops, registers, counters, FSM design, etc. These also included combinational logic circuit elements like Multiplexers and encoders/decoders. A few static timing analyses were also there, like finding the setup & hold time and predicting timing violations. Overall, the questions were designed to test your fundamentals in every aspect of digital design thoroughly.

2nd Round: Technical Interview - The interview began by discussing the projects I mentioned in my resume, which included my PS1 and a formal project. The interviewer asked a few questions about the nature of these projects, but nothing major. Next, we moved on to the interview questions. The interview format was a whiteboard interview, where both the interviewer and you could share the screen and write down your question and answers. Here is a list of some of the main questions asked:

- 1) Implementing logic gates and essential functions using 2:1 Multiplexers
- 2) designing a Mealy/Moore machine for a sequence detector
- 3) Building a frequency divider for $f/2$, $f/3$, and $f/4$ and different duty cycles
- 4) Explaining the idea for a Buzzer circuit (Used in Quizzes)
- 5) Discussing the FSM for a 4-bit passcode lock

Finally, the interviewer asked me if I had any questions about TI, and I asked about company culture and my role in a team. Overall, my interview lasted nearly 1.5





hours, which was much longer than my friends. My interviewer was very friendly, making the process less stressful and helping me concentrate on my answers better.

Round 2.5: HR interview- This was conducted over the telephone after all the technical interviews. They asked a few questions about my CGPA and projects I had done, as well as extracurricular activities I mentioned in my resume. This round was very informal and brief, so I did not include it as a separate round.

Important CDCs and Electives

Digital Design and ADVD

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

I began preparing for SI's in the summer, but I became severe around one week before the TI summer internship notice was announced. I started by brushing up on my Digital Design basics, going through the lecture slides, and then moving on to problems in Morris Mano, GATE, and sums I found online. I also went through a few lectures in NPTEL for ADVD and the basics of Computer Architecture.

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

Every single topic in Digital Design should be thoroughly understood. While the Digital Design course helped me build up the basics, a lot of time must be spent understanding the fundamentals of circuit analysis and exploring even the simplest of logic circuits. This can be done by solving problems regularly and reading the textbook thoroughly. Static Timing Analysis is also essential, as a few questions were asked in the written and other SI rounds. Chetan sir's Electronic training session lectures on static timing analysis were beneficial, as he explained the concept from the ground up.

While questions related to Computer Architecture were not explicitly asked, basic knowledge of CPU design and pipelining basics is always helpful.





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

While projects were not a significant focus in the interview, they expected some experience in Digital Design, whether in the form of a PS1/internship or a project. My formal project was on Approximate Multipliers, which I explained in detail to the interviewer, and he seemed impressed. My PS1 project, however, was not relevant to my role but I still explained the gist of the project.

Sources to help in preparation

- 1) Digital Design by Morris Mano. This book is essential for fundamentals and should not be skipped over.
- 2) Chetan sir's lectures on Static Timing Analysis.
- 3) GATE questions on Digital Design: <http://www.satishkashyap.com/2014/12/chapter-wise-gate-questions-and.html>
- 4) Verilog HDL: A Guide to Digital Design and Synthesis by Samir Palnitkar. Verilog is an integral part of written rounds and is helpful in interviews.

Your suggestion to help in the preparation

- Be very thorough with the concepts of Digital Design. Your fundamentals will carry you through the written round and is invaluable during the interview.
- In the interview, remember to describe your thought process and write it down. Do not mumble or stay silent for extended periods. Even if you are unsure about a particular question, do not be afraid to voice your thoughts, as the interviewer will always try and guide you in the general direction of the correct answer.
- Your attitude should not be too severe or too laid back, and always look at the interviewer directly when presenting your answer.
- When discussing your project/internship experience, ensure you are clear about every detail. You should be able to answer any question they throw at you. Otherwise, it reflects poorly on your experience.
- Try to enjoy the interview process! The quicker you become comfortable with your interviewer, the more confidence you gain, and you might even answer questions better.





Name: Dhruv Makwana

ID: 2019A3PS0381H

CGPA: 8.76

Role: Digital Design Intern

Recruitment Procedure:

1st Round: Basic questions about designing digital circuits/control systems to perform a given task. Basic questions about components like MUX and flip-flops.

Important CDCs and Electives

Digital Design, ADVD

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

I started seriously preparing five days before the interview, revised concepts of DD from Morris Mano, and then did gate questions.

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

DD, sequential and combinational circuit analysis

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

Worked on projects related to FPGA design and Verilog implementations of various circuits.

Sources to help in preparation

Morris Mano textbook, any gate questions website

Your suggestion to help in the preparation

Be thorough with DD basics and do sequential circuit analysis in detail.

Name: Vinayak Budhiraja





ID: 2018B3A3PS0522H

CGPA: 7.3

Role: Analog Intern

Recruitment Procedure:

1st Round: Online Test- The test had three sections: Digital, Analog, and aptitude. There were questions from microelectronic circuits, RC and RL circuits, OPAMPS, and Networks in the Analog section.

2nd Round: Round 2 was an interview round. My interview went for around 1 hour and 30 minutes. In the interview, she started asking questions from the network theory. she started asking some basic questions from RC and RL circuits and gradually increased the questions' complexity. She gave me different input signals and asked me to draw the output waveform. After this, she asked me some basic questions about signals and systems.

At last, she asked me questions from electronic devices. She asked me to explain the working of MOS capacitor and enhancement type MOSFETS.

Important CDCs and Electives

CDCs which were helpful were -

1. ELECTRICAL SCIENCES (EEE F111)
2. MICROELECTRONIC CIRCUITS (EEE F244)
3. ANALOG ELECTRONICS (EEE F341)
4. ELECTRONIC DEVICES (EEE F214)

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

I didn't start my preparation with the motive to crack the Summer internship. I started preparing for the GATE exam in the month of JULY. I began with Electronic Devices and Digital Design. After that, I started with signal and systems, left the subject in between,





and started focusing on my CDCs, which I had that semester. For the online test, I studied some essential topics from the microelectronic course and the course the electrical sciences.

I revised topics like RC, RL circuits, signal and system, and different circuits like clippers, clampers, and rectifiers for the interview round. At last, I revised Electronic Devices, which helped me a lot in the interview round.

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

1. Electrical sciences, the course we study in our first year, is the most crucial topic if one wants to enter the electronics field. It is the building block of electrical and electronics engineering. Make sure you know every concept related to this course and make your basics very strong. especially give focus on topics like first-order and second-order circuits
2. Signal and systems. Study all the different signals like step, ramp, impulse, etc. One should know basic things like calculating the average of a signal, the RMS value of a signal, the time period, etc.
3. Electronic devices- It is the most crucial subject. Have a good understanding of all the devices like BJT, MOS capacitor, and MOSFETS.
4. Microelectronic circuits- questions will be asked from this both in the test and interview. Study different circuits like clampers, clippers, and rectifiers. They will give a course in the discussion and ask you to draw the output waveform.
5. Analog electronics- study OPAMPS. One should know how a given circuit behaves, whether it is an integrator, adder, or filter.

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

Did not do any projects.





Sources to help in preparation

You can follow the Kreatryx channel on Youtube for all the mentioned subjects.

Especially for electronic devices, do watch Kamesh Shrivastava sir's lectures.

here is the link-

https://www.youtube.com/watch?v=PbWJ7XLqW1k&list=PLs5_Rtf2P2r75okkE2V9oXbwJl-8m-63Q

Your suggestion to help in the preparation

Just make sure your fundamentals of any subject are vital. To prepare for the test, practice solving objective questions. You can refer to any book for that. Be confident while giving the interview; if you get stuck anywhere, don't panic. Tell the interviewer how you approach the solution and share your thought process. Keep interacting with the interviewer.

Name: Shubham Priyank

ID: 2019AAPS0467H

CGPA: 9.42

Role: Digital Design Intern





Recruitment Procedure:

1st Round: In the online test, many questions covered various topics like digital circuits (SRAM, dram, different types of flip flops, etc...), MOS and BJT circuits, etc.

2nd Round: Round 2 was an interview round, really basic questions related to Digital Design were asked followed by a half-hour discussion on my resume.

Important CDCs and Electives

Digital design, Microprocessor Interfacing, and Microelectronic Circuit

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

You don't need to prepare too much. Just be attentive to your second-year courses and read some extra stuff related to these courses on your own.

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

Sequential circuits, Static time analysis.

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

Various Verilog-based projects like IEEE Floating Point ALU and Ping-Pong on an FPGA were very helpful. I also had a pipelined RISC-V core and a trace-based cache simulator that was very helpful.





Twilio

Eligibility: B.E.CS

CGPA Cut-off: 0

Roles: SDE Intern

Selects: 4

Selection Rounds: 3

Stipend: 1,22,325





Name: Aryan Chaubal

ID: 2019A7PS0130H

CGPA: 9.28

Role: Software Developer Intern

Recruitment Procedure:

Online Coding Test:

We had two coding questions. The first one was a simple trie implementation for words given in the input. The second question was to split a long input string into text messages (each text message can be at most 160 characters long). There were a few edge cases in this question where we had to take care to not split words and work with punctuations. Both the questions had some simple test cases that passed with a trivial solution and some extra credit test cases that required the optimal algorithm/data structure. We were also asked to write clean code and comments. People who passed all the test cases moved to the next round.

First interview:

I was asked just one DSA question in this interview. I had to find the third last element in a linked list. I explained a naive approach and then the one-pass solution. I was then asked to implement the solution in C++ on an online IDE. After giving me some test cases and other edge cases, the interviewer seemed satisfied. I was then asked some basic DBMS questions on normalization. For the behavioral part, I was asked to give an example of when code documentation helped me and saved me a lot of time, and I feel like I could not come up with a good answer for that.

Second interview:

It was pretty short and informal; the interviewer was very friendly and took quite an interest in my academics and projects. Some of the questions he asked included what I thought was my most significant achievement, my experiences working on projects in a team, and some related situational questions. He asked me if I had any questions for him in the end. I asked him about his experience working at the company and he was quite happy to answer. I also asked him about the work-life balance, and he seemed annoyed by that (apparently, literally everyone asks this question), so I guess you should avoid that.





Important CDCs and Electives

- DSA: It is the most important course while preparing for SIs. The weekly labs in this course were quite helpful.
- DBMS: The concepts taught in this course are quite important and the knowledge of relational databases and making schemas is very useful for interviews.
- OOPS: The course project helped me here since I had implemented an OTP feature using the Twilio API to send text messages. Mentioning that left the interviewer quite impressed and I feel like it helped in my selection.

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

I started preparing after the first couple of companies had their SI tests and I could not perform well in them. I started by solving a combination of Leetcode easy and medium problems. I then started focusing on areas that I realized I was weak at - graphs and dynamic programming. I also started using Interviewbit to get some practice on these specific topics.

What are some critical topics/skills essential for the process

DSA is extremely important as a strong development background will not help if you aren't able to clear the coding rounds. The coding rounds get extremely competitive, especially in online mode, and constant failure can be a major demotivating factor. DSA practice with online IDEs (like Hackerrank and Leetcode) is necessary. Knowledge of OOPS and DBMS concepts is also quite helpful.

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

I have worked on several projects like the CMS iOS App and a couple of projects in SWD. The interviewers asked me a lot of questions about my experiences, the challenges I faced, and how I went about solving them. I was also asked about how I go about doing projects in a team (how do we decide a tech stack, allot work to everyone, etc.).





Sources to help in preparation

For DSA: Leetcode, Interviewbit, Hackerrank, GeeksForGeeks

For DBMS and OOPS: The CDCs should be enough. There is some decent content on GeeksForGeeks as well.

Your suggestion to help in the preparation

Make sure to read up on the Twilio Magic values before the interviews. It will help with the behavioral questions.





Name: Sahithi Annadi

ID: 2019A7PS1208H

CGPA: 8.33

Role: Software Developer Intern

Recruitment Procedure:

Coding round:

The coding test had one coding question, We were supposed to extract phone numbers from a given dataset.

Interview:

In the technical interview, I was given two dynamic programming problems. The first was a 1-d dp problem, the second one was a 2-D dp problem and it was sufficient to discuss the greedy solution. The interviewer gave me hints and helped me get to the solution.

During the HR round, I was asked about some leadership roles and initiatives I had taken in the past, and my learning experiences from the extracurriculars I took up. I was also given a possible conflict situation while working in a group and he asked me how I would deal with it.

Important CDCs and Electives

DSA is essential, Both my coding test and technical round only had questions from DSA. Thorough knowledge of OOPS and DBMS is also better as I was asked questions related to these concepts in other company interview rounds.

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

Around May-June, I started by following the weekly resources put out by crux. Once I got comfortable with the concepts I started doing questions from a website called BinarySearch. I also solved problems from leetcode and interviewbit. Right before the interview, I brushed up on OOPS, DBMS concepts, and project-related information.

What are some critical topics/skills essential for the process

- Being able to think of a problem in terms of subproblems and arriving at a dynamic programming solution
- Ability to understand the hints the interviewer gives and applying it to make your solution efficient
- Good communication skills , Convey what you want to say to the interviewer





-Strong Resume: The question in the coding test wasn't very difficult, however only 8 people got shortlisted after the coding test

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

For one of my projects I used the twilio sms sending api and I think this helped my resume get noticed.

Sources to help in preparation

- Binarysearch.com, Leetcode, InterviewBit, GeekforGeeks, DSA Lab questions
- Youtube channels: Abdul Bari, Aditya Verma

Your suggestion to help in the preparation

- Have a strong resume
- Good grasp of C++ STL
- Stay calm and try to pick up on the hints given by the interviewer





Birla Institute of Technology & Science, Pilani
Hyderabad Campus

Name: Manasa Reddy Bollavaram

ID: 2018B4A7PS0774H

CGPA: 8.74

Role: Software Developer Intern

Recruitment Procedure:

Test: 3 questions (2 coding and 1 subjective)

Interview round 1: Technical round (1 question)

Interview round 2: HR round

Important CDCs and Electives

DSA, DBS, OOPS

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

Started off in 2-2 by doing DSA weekly assignments with a friend. After that, we continued the preparation by trying out 4-5 DSA questions daily and discussing them on a regular basis. Before the interviews, I brushed up DBS and OOP concepts from class notes, javatpoint, gfg etc and looked up gfg archives for previous year Qs. Also, read up a bit about the company and its values the day before the interview.

What are some critical topics/skills essential for the process

Communication skills, knowledge of libraries in the language that you will be using for coding Qs.

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

PS1 (web dev), Microsoft Engage, OOP, and DBS course projects

Sources to help in preparation

PU DSA training, DSA Qs in GFG and Leetcode (read the detailed sols including the brute force approach), javatpoint for OOP concepts, Lec notes for DBS, Interviewbit

Your suggestion to help in the preparation

For test: Practice coding Qs on a regular basis so that you can spend more time on thinking of the approach rather than writing the code itself.



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For technical interview round: Be confident while answering Qs. Start with the brute force solution and improvise on it(gfg detailed solns can help with that). Ask clarifying Qs from the interviewer if needed. Do loud thinking during the interview. Don't get tensed if you get stuck; the interviewer is there to help.

For HR round: Write down some points while doing any project so that it becomes easy to revise before the interview. Read up about the company. Don't lie on your resume as they may ask detailed Qs and if you do, make sure to read up on it. See the typical Qs that are asked in an HR round and prepare answers beforehand. Have 2 or 3 Qs prepared beforehand to ask when asked for any Qs for them.





Uber

Uber

Eligibility: B.E. (all)

CGPA Cut-off: 0

Roles: SDE

Selects: 2

Selection Rounds: 4

Stipend: 160000

Name: Aman Jham



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ID: 2019A7PS0071H

CGPA: 8.61

Role: Software Engineering Intern

Recruitment Procedure:

1st Round: A coding test(60 mins), those who did all 3 problems were selected for an interview. Problems were based on sorting, dp and greedy.

2nd Round: First technical interview [50 min] consisted of problems based on bipartite graphs + binary exponentiation, and then I was asked to implement the same. Then there were some follow-up questions to explain some of the functions that were used in implementation. There were questions regarding time and space complexity also.

3rd Round: Second technical interview [50 min]: I had to suggest, discuss and implement solutions to real world situations that Uber faces. There were some follow-up questions. For this problem one had to design certain data structures to query optimally on some data following various constraints.

4th Round: HR Interview [approx 35 min]: PS-I experience was discussed along with some questions on DBMS and OOP.

Important CDCs and Electives

DSA, OOP, DBMS are important.

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

I had some prior experience in competitive programming. I started giving regular contests on Codeforces and Atcoder from 2-2. During my PS-I, I solved problems on





Interviewbit of various companies. Revised basic concepts from OOP and DBMS one week prior to the interview.

What are some critical topics/skills essential for the process

1. Data structures and algorithms
2. Object oriented programming
3. Problem solving skills

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

I only did course projects and elective projects. The interviewers did not ask about the projects.

Sources to help in preparation

1. Codeforces
2. Leetcode
3. GFG
4. Interviewbit

Your suggestion to help in the preparation

1. Improve your problem solving skills and contest regularly on various platforms like codeforces, leetcode and atcoder.
2. Prepare for standard HR questions.
3. Practice standard problems of linked lists, BSTs and binary trees.





Name: Saloni Singh

ID: 2019A7PS1261H

CGPA: 8.85

Role: Software Engineering Intern

Recruitment Procedure:

1st Round: A coding test: Uber She++, DP questions asked were hard.

2nd Round: First technical interview: DP questions of medium-hard difficulty range were asked.

3rd Round: Second technical interview: Questions were on the following topics- Linked List, Maps and OOP- building a data structure.

4th Round: HR Interview: Discussions regarding projects and HR questions such as naming strengths and weaknesses were asked. 1 DSA question was also asked.

Important CDCs and Electives

DSA and OOPs are important.

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

I started preparing properly during PS-1. I used to participate in coding contests regularly during my second year, which also helped. I practiced topic wise questions from Leetcode, as well as company specific questions. I would read about a topic on GFG, then solve questions from Leetcode until I was a little confident in that topic. Then I would move to the next topic. I had friends and seniors with whom I did mock interviews.





What are some critical topics/skills essential for the process

1. Communication
2. DSA

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

Nothing in particular personally. Knowing your projects well is important for the HR round.

Sources to help in preparation

Leetcode mostly. Occasionally InterviewBit and GFG.

Your suggestion to help in the preparation

1. Practice DP and Graphs.
2. Mock interviews with seniors.
3. Practice Uber-specific questions.





Birla Institute of Technology & Science, Pilani
Hyderabad Campus



Walmart

Eligibility: B.E. CS and Phoenix

CGPA Cut-off: 7

Roles: SDE

Selects: 6

Selection Rounds: 1

Stipend: 80000



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Name: Navam Shrivastav

ID: 2019A7PS0092H

CGPA: 9.12

Role: Software Intern

Recruitment Procedure:

1st Round: It was the online coding assessment round. Those who did the first two questions and some test cases from the 3rd question were selected.

Important CDCs and Electives

DSA is by far the most crucial course required for getting SI. Along with it, OOPS and DBMS are the next important ones. Doing some relevant elective in your 2-2 is a bonus as it adds another project to your resume.

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

I started doing coding problems seriously from July onwards during PS-1. I solved questions from InterviewBit and LeetCode. I also kept revising the theoretical concepts from OOPS and DBMS.

What are some critical topics/skills essential for the process

DSA and grinding questions on LeetCode and InterviewBit.

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

I didn't do any CS elective in my 2-2. So basically, I only had projects from the CDCs like OOPS and DBMS. I also had another project from my PS-1 work based on Web Development.

Sources to help in preparation

Do InterviewBit entirely as quickly as possible. It has a concise list of many standard topics with many questions on each of them. After finishing that, you can try questions on LeetCode. Also, I would like to suggest DP playlist of Aditya Verma on YouTube for those who don't understand DP as he teaches right from the basics of it. Also, look at GeeksForGeeks company-specific experiences before giving any test for a specific company. For DBMS and OOPS, I referred to Gururaj sir's slides.





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Your suggestion to help in the preparation

Practicing as many questions as possible is the most important thing. Please don't waste your time during PS-1 (As I did), and start practicing as soon as possible. Be regular, solve some questions daily, and don't let the streak break.



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Name: Tharun kumar reddy Bathini

ID: 2018B4AAPS1077H

CGPA: 8.12

Role: SDE Intern

Recruitment Procedure:

Resume Shortlisting followed by an online coding test.

Three coding questions were asked, one easy and 2 of medium Leetcode difficulty level.

Important CDCs and Electives

DSA, OOPS, and OS

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

I had a decent knowledge of DSA from 3-1, which I have learned from GFG. I seriously started preparing just after completing the summer term. I used to give at least one virtual test on Leetcode every day.

What are some critical topics/skills essential for the process

DSA, problem-solving (in online coding rounds, some even consider the submission time).

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

OOPS, and OS projects helped to get shortlisted in the initial round.

Sources to help in preparation

1. GFG
2. Interviewbit
3. Leetcode





Name: Himanshu Goyal

ID: 2018B2A3PS0753H

CGPA: 7.33

Role: SDE Intern

Recruitment Procedure:

1 Online coding test with 3 questions (1 easy, 1 medium, and 1 hard).

Important CDCs and Electives

DSA and OOPS.

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

I started preparing in the 1st week of May.

Saw Demux and Aditya Verma videos for DSA and practiced questions on leetcode and gfg. For OOPS, I also watched demux videos.

What are some critical topics/skills essential for the process

DSA and OOPS.

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

I have done two projects. One was in MERN Stack, and one was an ML project.

Sources to help in preparation

GeeksForGeeks, Leetcode, Aditya Verma's YouTube channel.

Your suggestion to help in the preparation

For Walmart specifically, it was written in the instructions that if the score was tied between two candidates, the candidate who submitted earlier would be given a higher preference. I could only do two questions out of 3, but I submitted the test very early, which helped in my selection, so if the process is the same next year, I suggest finishing the test as soon as possible.

Name: Hardik Bhalla





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ID: 2018B4A3PS0263H

CGPA: 7.7

Role: SDE Intern

Recruitment Procedure:

1st Round: Resume Shortlisting.

2nd round: A coding test of two hours duration and three medium-hard problems based on Trees, DP and Graphs.

Important CDCs and Electives

DSA

What are some critical topics/skills essential for the process

Data Structures and Algorithms, Problem Solving.

Name: Utkarsh Jain



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ID: 2018B5A7PS0456H

CGPA: 8.24

Role: SDE Intern

Recruitment Procedure:

1 Online coding test with 3 questions that needed to be finished in 2 hours.

Toughness: 1 Medium (bit manipulation) + 1 Medium (dynamic programming) + 1 Hard (graph). I could do the first two completely, but I could not pass a few test cases in the last question. I feel that the time taken to solve the questions was also a factor that was considered.

Important CDCs and Electives

DSA

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

I started preparing for DSA-based questions two months before the SI drive.

What are some critical topics/skills essential for the process

Be comfortable with at least medium-level Leetcode questions, especially in dynamic programming.

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

My resume included a personal IoT project and course projects on Machine Learning and OOPs.

Sources to help in preparation

Youtube tutorials for learning DSA concepts and InterviewBit for practice.

Your suggestion to help in the preparation

If you are new to DSA and CC, do not focus on giving too many CC contests. Instead, give Leetcode biweekly/weekly contests and use the remaining time to learn the concepts behind the standard and the most frequently asked questions in interviews. Questions sometimes repeat, so make sure to go through the previously asked questions specific to the company you are writing the test for.





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Any other relevant information:

Officially, 7+ CGPA was mentioned as eligibility criteria. But few students with even 8+ CGPA were not shortlisted for the test. Make sure your resume is well made.



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Workspot.

Workspot

Eligibility : NIL

CGPA Cut-off : NIL

Roles : Software Development Trainee

Selects : 1

Selection Rounds : 3

Stipend : 50,000





Name: Nivesh Duppalpudi

ID: 2019A7PS0018H

CGPA: 8.56

Role: Software Development Trainee

Recruitment Procedure:

1st Round: The questions asked in the first interview were from DSA and OOP, one question involved coding the string class from scratch, another related to finding the frequency of pairs based on some condition. Some basic questions regarding OOP were also asked like inheritance and polymorphism and how it is implemented in java.

2nd Round: Questions in this interview were based on traversals of tree, linked lists and a few standard questions on OOPS.

3rd Round: This was the HR round. They asked about my past academic career and some other behavioral questions.

Important CDCs and Electives

- 1.DSA
- 2.OOP
- 3.DBMS

When did you seriously start 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 of them have questions that are very similar to what is asked in interviews. 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 archives.





What are 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?

Java project (part of DBMS course) , Web Development Project (part of SE course)

Sources to help in preparation

1. Leetcode and InterviewBit for coding (can also follow codeforces)
2. GeeksForGeeks for puzzles and previous year questions.

Your suggestion to help in the preparation

Be thorough with the projects that you have mentioned in your resume and also with OOP and DBMS concepts. Coding questions were easy to medium. Java/Spring projects would be an added advantage.





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Off Campus Chronicles



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WADHWANI AI
AI FOR SOCIETY GOOD

Wadhvani AI

Eligibility: B.E. (all)

CGPA Cut-off: None

Roles: ML Intern

Selects: 1

Selection Rounds: 3

Stipend: 50,000



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Name: Pranav Balaji

CGPA: 8.24

Role: Associate ML Intern

Recruitment Procedure:

1st Round: Quiz. Fundamentals on ML, linear algebra, probability and statistics. They were mostly mcqs hosted on hackerrank.

2nd Round: Interview on ML concepts. Stuff like what methods I would use for a highly class imbalanced classification problem, what metrics I'd use, etc (My intern project was based on this)

3rd Round: Coding interview - not the DSA kind.

This round tested my comfort in several stages of the applied machine learning pipeline, like:

- formulation of problem + selecting performance measures
- working with the dataset: loading, doing basic exploratory data analysis, basic transformations
- writing, fitting and evaluating some simple models.
- basic output analysis

Googling was allowed for this and was conducted on a jupyter notebook

Important CDCs and Electives

ML and Math 3 - Probability and statistics (Haven't taken DL or ASM but they would've helped)

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

Due to the short notice, I only had a couple days to prepare for each round.





Round 1: I prioritised revising the concepts I already knew rather than learning new stuff. For linear algebra and prob stats, I used geeksforgeeks. As for ML stuff I'd done the Coursera course by Andrew Ng so I went through those slides.

Round 2: They specified they'd ask deep learning as well, so I went through some of the Coursera DL specialisation slides (I'd finished this as well the year before)

Round 3: I hadn't worked on sklearn much before, but they mentioned that googling was allowed so I wasn't too worried about remembering the api.

What are some critical topics/skills essential for the process

Intuitively understanding concepts. A lot of stuff they asked in the interview weren't textbook questions, rather they required you to come up with schemes on your own and explain them. Knowing how to google helped with the last round, and it's actually a pretty important skill :)

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

My experience in deep learning projects definitely helped me in all the rounds, especially the last one.

Sources to help in preparation

Geeksforgeeks, Coursera: ML course and DL specialisation helped a lot, although they're not something you can cram in a few days :)

Your suggestion to help in the preparation

Research roles like this one are quite different from engineering roles. There was no DSA asked in any round, so you can pretty much skip it (although I can't guarantee it for other roles/similar ones in other companies. I know MSR requires DSA). The role itself involves a lot of experimentation and if reading research papers isn't your cup of tea, you're better off looking into engineering roles :). If it is, however, you'll find this helpful.





1. Know your theory. Even if you feel comfortable whipping up a simple model in pytorch, sklearn or tensorflow, how well can you explain the theory behind, say, the loss function? Can you come up with a new one if required? Can you theorise why your model isn't performing as good as you expected it to(or the opposite)?
2. Think out loud. In the interview, the most important thing they test is your thought process. If you don't understand a question, don't feel embarrassed to ask them to clarify. Even if you think you can't answer it perfectly, walk them through your thought process because most of the time, that's all they expect.
3. Projects. This is more general and long term advice, but work on projects you actually like. Looking up "Top 10 DL projects to have on your resume" is fine, but I wouldn't recommend it unless it's just to get you comfortable with the language/framework. Take a week to think about what you want to work on - something that's relevant to you and you caught yourself thinking "wouldn't it be cool if it existed". It helps with motivation and you'll learn a lot that you otherwise wouldn't if you just followed a tutorial. You might even have to read a few papers.

Good luck!





Goldman Sachs

Goldman Sachs

Eligibility: B.E

CGPA Cut-off: No CG cutoff

Roles: Summer Analyst

Selects: 2

Selection Rounds: 5

Stipend: 1,00,000





Name: Swapnil Pokale

CGPA: 7.69

Role: Summer Analyst

Recruitment Procedure:

1st Round: Online Test 1 (Aptitude)- It had 5 different sections i.e Numerical Computation and Reasoning, Comprehension, Abstract Reasoning, Diagrammatic Reasoning and Logical Reasoning with 60 questions in total across these 5 sections marking scheme was +5/-2, Numerical Computation involved some good problems related to matrices, linear algebra, coordinate geometry and probability statistics. Rest of the sections were the same as what we could expect in exams like NTSE stage 2. I was able to solve around 35 problems(ig with considerably good accuracy).

2nd Round : Online Test 2(Coding Test + Aptitude)- It again had different sections but now the catch was that each section had some specific time like you can't switch between the sections. As far as I remember it had 4 sections, 1st being the coding section with 2 DSA problems for 45 min, one problem was 2d-DP problem and other was n-array tree. I was able to solve 1 completely and the others had 9/10 cases passed. This round had a separate section for probability and statistics along with some interesting problems of permutations and combination. There was another section to write an essay about our action in some particular situation mentioned in the problem statement. Here try to ensure framing some story explaining that you had been in a given situation in the past and how you overcame that challenge. And the last section was Logical Reasoning, the same as round 1.

3rd Round : Interview Round 1- Interview started with introduction and then 45 mins of dsa. I was questioned on implementing stack using queue, queue using stack, tree traversal techniques, Dijkstra algorithm after verbally discussing all the underlying concepts and data structures for above mentioned concepts. Was asked to code a tree problem, could be solved easily if one had ever solved calculating the diameter of tree.





Was asked another 1D dp problem to code then the interviewer asked me some basic questions related to Object Oriented Programming.

4th Round : Interview Round 2- Interviewer here asked me about all the things I was questioned about in the last round and then covered the data structures which were not discussed in the previous one. The first question she asked me was to let her know how I would implement the previous and next feature on Chrome browser. I explained the approach for this using a doubly linked list. I wasn't asked to code this problem. Next I was asked about different techniques to avoid collision in hashing. After this she asked me about courses I did in my college. But until my interviews, I wasn't done with oops, dbms or os. She started asking some multithreading related concepts but I honestly told her I don't have any knowledge about OS but I will complete this by next sem. She was kind enough to be okay with it and then asked me to write sql queries for some tasks she mentioned and then some basic software design related questions like, what vertical/horizontal scaling is, what sharding is about. Then the discussion was about how GS builds databases to query humongous amounts of data. She also asked me about the use of R/B trees in DBMS.

5th Round : Interview Round 3- This was an HR + puzzle round of sorts where I had a brief talk about what to expect in an internship. The discussion was related to my PS1 experience. GS is known for asking puzzles, I was given 2 puzzles both of which I saw a day before on gfg. Finally, I was asked if I had any questions for them. Here I was also questioned about my interest in finance. As I mentioned this in my introduction, I had to answer some very basic questions about what options futures swaps are.

Important CDCs and Electives

1.DSA, OOPS, DBMS, DRM.

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

Trees, Dynamic Programming, and Graphs





What are some critical topics/skills essential for the process

1. Indiabix for aptitude questions
2. DD - Morris mano, slides
3. C programming - lecture slides, geeks for geeks questions
4. Verilog - textbook, look up RTL design questions and try solving them, look up frequently asked Verilog questions

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

As part of my PS1 I had a good project based on deploying an ML model for the firm. Having worked with ML algorithms and fronted part of this project I was able to explain my interviewers in great depth about my project. Apart from this I had one small MERN stack project.

Sources to help in preparation

Interview bit, Leetcode, Codeforces, GFG. To start with I would say Interview bit is a good place to solve topic wise problems and once you are comfortable about most of the topics you can jump onto leetcode where you will get problems from all topics. Leetcode has 2000+ questions so at the start I would suggest to complete top interview questions and top 150 questions lists on leetcode and then if time permits you can work on other problems. For CS fundamentals youtube channels like gate smashers are enough also one may refer to GFG articles. For time bound practice and solving implementation based problems in online coding rounds some participation in CF contests will help.

Your suggestion to help in the preparation

Show your concern about financial markets apart from software engineering. GS is known for asking puzzles so can expect at least one round where puzzles are asked. You will be given an opportunity at the start, to steer your interview in your strong zone by adding some lines in your intro related to what you are good at (more or less applies for every interview not only GS).





Name: Akshay Wakhare

CGPA: 8.29

Role: Summer Analyst (Tech)

Recruitment Procedure:

1st Round : The Online round was MCQ+Coding+Essay Writing. MCQs were math intensive with focus on Probability, PnC, statistical analysis, analytical thinking etc and an English section was also there. The coding questions were of medium difficulty. Essay was on a general topic to gauge your behaviour in a particular scenario and how you tackle problems.

2nd Round : The First Interview had 2 coding questions, 1 easy and 1 medium and there were questions on the projects that I had done.

3rd Round : The Second interview had 1 coding question and then there was discussion on my goals, ambitions and all.

Important CDCs and Electives

- 1.DSA
- 2.OOPs
- 3.DBMS
- 4.Course projects

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

I started preparing in the summer after 2-2 along with my PS-1. I used to do questions from Leetcode and InterviewBit everyday for 3-4 hours. I covered the theory first and then moved on to questions. For DP I followed Aditya Verma and CodeNCode for Graphs. OOP and DBMS were covered through course materials but GFG and Javatpoint also helped a lot.





What are some critical topics/skills essential for the process

- Probability, PnC, statistics
- Logical reasoning
- DSA
- 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 ?

Course projects done for OOP and DBMS. More than the technical skills gained, teamwork and collaboration played a significant role. You should be able to project how you decided on the approach, how the work was divided and what part you played as a team member as well as a leader.

Sources to help in preparation

- Interviewbit
- Leetcode
- GeeksforGeeks
- Youtube

Your suggestion to help in the preparation

Have a very broad approach towards problems. Your people and leadership skills matter equally as your coding skills, try to portrait that in your interviews. The Online round was tricky and questions were to be done fast. The interviewers wanted to see the approach and how you reach the solution, don't directly jump to it.



EPSILON®



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Epsilon

Eligibility: B.E. (All)

CGPA Cut-off: more than 7.00

Role : Data Analyst

Selects: 1

Selection Rounds: 3

Stipend: 30,000 Rs



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Name: Aditya Goyal

CGPA: 8.95

Role: Data Analyst

Recruitment Procedure:

1st Round: Online Test Round

- Coding test - 30 mins to solve one python question
- 15 MCQ questions about Python, R and SAS
- 10 Mental ability and logical reasoning questions
- 5 Math/data interpretation question
- 10 DBMS questions based on Joins and SQL Queries

2nd Round : Technical Interview Round

- They asked me to explain my projects in-depth and asked technical questions about them.
- Then he asked me questions on some Machine Learning Concepts, including Regression, CNN and Optimization Techniques, as I have mentioned in one project based on CNN.
- And also a few questions based on NumPy, pandas and data cleaning.

3rd Round : Technical + HR Interview Round

- They asked questions based on DBMS concepts like joins, ACID properties and SQL queries.
- HR questions were like what's your biggest weakness? And what do you think the company does? And what are your expectations from this role?

Important CDCs and Electives

1. DSA , DBMS, Machine Learning, FoDS





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

- I started preparing for SDE roles along with my PS-1. I prepared from sites like LeetCode and GeeksforGeeks.
- In my 3-1, I did some Data Science courses as part of my minor, so they helped me understand the ML concepts. Nevertheless, it helped keep my Python skills strong, which benefited me in the coding question and some technical abilities 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

- Strong Grasp on the Python libraries like NumPy and pandas.
- Communicate your answer well with the interviewer.
- Familiarity with DBMS and SQL concepts.
- Logical Reasoning and Aptitude Skills

Sources to help in preparation

- GeeksforGeeks
- NL Bhanumurthy sir's FoDS notes
- Leetcode
- InterviewBit

Your suggestion to help in the preparation

Know your projects inside out and be ready to answer anything about them. Manage time well in the online test, as it was easy but lengthy. Be good at Python. Also, being truthful and clear about what you say will keep the panel interested in you. Keep calm; the Interviewers were quite generous and helpful, and If you don't know something, tell them and don't waste time.

