BITS Pilani
Pilani Campus

Recruitment Process
& Interview Experience

INTERVIEWEE TESTIMONIALS

Placement Season
2020-2021 First Semester

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Foreword

Dear Students,
It gives us immense pleasure to present the PU Chronicles for the first semester of 2020-21. The document aims to provide you with information that would help you to make important decisions related to your placements and academics.

This document has been curated by compiling the interview experiences from students who cleared the interview rounds and were placed in the companies that visited campus in 2020-21 Sem 1. This is by no means an exhaustive document enlisting all the students placed or all companies that visited. The information here is from the student's perspective and thus can be very resourceful to students as they gear up for the processes yet to come. We urge you to get in touch with us directly to clarify doubts, and also write to us at pu.bitspilani2020@gmail.com and/or on the Slack channels in case you notice any glaring errors. We will ensure that a rectification notice is sent at the earliest.

A word of caution. Placements is an extremely volatile area, and changes based on a number of factors such as market conditions, recruiter relationships and business constraints. For the academic year 2020-21, the Placements were affected by COVID-19 and hence the trends might differ from that of other years. Please read through the document with the awareness that the trend for a certain year may not be the trend for the next year. The rounds and processes conducted by a company in the previous semester may very well differ this semester.

Hence, prepare hard, be optimistic, and rest assured - the Placement Unit is always there for you!

All the Best,
Placement Team,
Pilani Campus

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Domain

Analytics

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Sector: Consultancy/Analytics

Name: Pranat Kashyap (2017A3PS0281P)

Company: Collegedunia

Profile: Business Development Manager

Recruitment Procedure:

• Resume shortlisting, Interview Rounds.

• There was no fixed CGPA cutoff in shortlisting. Well-rounded resumes with PORs and extra-curricular activities were preferred.

• The interviews were divided into two rounds:

• Business Round: This round focused on testing your business acumen. I was asked to innovate a new business idea for Collegedunia, detailing its execution, possible upsides and pitfalls, and ways to steer through them. Try to be innovative and realistic in your reply. Use estimation and numbers, instead of vaguely describing the idea. Also read about the organization, its competitors and its current business lines, a few questions might be asked on these as well.

• HR and Resume Round: This round was mostly based on my resume points, especially the PORs and extra-curricular activities, followed by fit-based and behavioral questions. It is necessary to know your resume inside out. You should be able to talk about each point in depth. Highlight the points which you can use to justify your selection for the job profile.

Sources of Preparation:

Go through company website and recent news involving it. Practice guesstimates to be able to frame a structured and analytical business idea. You can find many guesstimates on the internet. Be prepared to speak about each of your resume points for at least a minute without sounding repetitive. Prepare answers for typical HR questions prior to the interview.

Courses and Certification:

Nothing particular required for the job profile. But you should be able to explain your reason for any course/certification you mention in your resume.

Other Relevant Information:

Try to be analytical and objective in the business round. You should be able to show your willingness to learn and work in the organization in the HR and resume round. Customizing the resume according to the job profile and highlighting important points would help a lot.

Sector: Consultancy & Analytics.

Name: Rahul Bhagtani (2017A4PS0364P)
Company: O9 solutions
Profile: Consultant

Recruitment Procedure

- Resume shortlist
- Aptitude test
    - It was an hour-long test and had multiple choice questions based on maths and logic.
- Interview: The interview was mainly a fit interview and they were also looking for someone with a it of coding experience (not necessary, but would be a plus)

Sources of Preparation

Placement unit provided practice course

Courses and Certification

Nothing as such

Other Relevant Information

It is a supply chain analytics company so demonstrating an interest in problem solving, optimization along with math will be good.

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Domain

Banking & Finance

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Sector: Banking & Finance

Name: MOHIT KUMAR JANGIR (2017B3PS1217P)
Company: ICICI BANK

Profile: Management Trainee

Recruitment Procedure

1. **Resume Shortlisting**
2. **Psychometric Evaluation**
   a. Questions are basically situational and test your understanding and decision making. There is no such preparation required for the test, only thing you need is to be honest and answer. There are many questions which would be repeated 2-3 times, so try to answer honestly.
3. **Group Discussion**
   a. You will be assigned groups beforehand. A topic will be given on the spot with at least a minute to think about it and to make any notes if you want. Knowledge about latest technologies used in banking sector. Other news related to banking sector would be a plus.
4. **Interview**
   a. The interview was a mix of both technical and HR interview.
   b. Questions were related to POR, Projects, Subject mentioned
   c. A good understanding of the projects mentioned on resume and subjects is required.
   d. HR questions were mostly about your preferences and other basic questions one could expect.

Sources of Preparation

- For evaluation no such preparation is required
- For GD, gather information from google about banking related news
- Check the banks website and their PRs
- For interview knowledge about projects and subjects mentioned is a must, as questioned as asked on them for sure

Courses and Certification

No Subjects as such.

Other Relevant Information

Most job interview at ICICI are more FIT based than skill based. You need to convince the recruiter why you wish to join that particular organization and not work in some other sector.

Sector: Data & Analytics/Finance/Marketing/Sales.

Name: Shikhar Latoriya (2017A4PS0476P)

Company: ICICI Bank

Profile: Management Trainee

Recruitment Procedure

- Resume Shortlisting
- Online Test
- Group Discussion
- Technical Interview

The technical interview was very balanced. The questions from both the backgrounds (Finance and Mechanical Engineering) were asked. Projects are very important.

Sources of Preparation

Course books, Case in point, Project reports, Internship reports (all in depth). This was really important as they asked questions from every part in depth.

Courses and Certification

Minor in Finance. No certificates.

Other Relevant Information

Follow the group discussion and technical interview advice from the seniors. Don't try to fill your resume with unnecessary points, make sure you know everything you've mentioned.

Sector: IT

Name: Anshuman Mishra 2017A8PS0622P
Company: Tata AIG
Profile: SDE – Innovation Lab

Recruitment Procedure

- Resume Shortlisting, Technical interviews, HR interview
- Technical Interview 1 primarily had DSA based GFG medium level programming questions.
- Technical Interview 2 primarily had Mathematical puzzles and Resume based questions (Be thorough with your Resume)
- HR Interview – Standard Behavioral questions were asked.

Sources of Preparation

GFG – Puzzles, GFG – DSA based questions.

Courses and Certification

BITS Courses that might help – DSA, OOP.

Other Relevant Information

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Civil

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Sector: Civil (Transportation Engineering)

Name: Debasis Samantaray (2019H1300111P)

Company: Jacobs India

Profile: PGET, Highways

Recruitment Procedure:

- Aptitude test
- Resume Screening
- Interview (Technical)

Sources of Preparation

- Study material of the courses
- Class Notes
- Internet
- Research papers

Courses and Certification

- AutoCad Civil 3D
- Vissim
- Faarfield
- Bakfaa
- Excel
- IITPAVE
- KGPBACK
- Revit

Sector: Civil (Transportation)

Name: Mehta Aditi Vipul (2019H1300106P)

Company: Jacobs

Profile: Graduate Engineer

Recruitment Procedure

1. Technical Test
2. Resume Shortlisting
3. Interview

Sources of Preparation
Course textbooks.

Courses and Certification
Software knowledge is must.

Other Relevant Information
Be clear with your basics and know about all the equipment being used in the industry along with their working principles and how they work. Also, you must be crystal clear with your project knowledge.

Sector: Civil

Name: Shikhar Mittal (2019H1300619P)

Company: Jacobs

Profile: Post Graduate engineer trainee

Recruitment Procedure

1. Technical Test
2. Resume Shortlisting
3. Interview

Sources of Preparation
Course textbooks and Arihant GATE Tutor.

Courses and Certification
Software knowledge is must important.

Other Relevant Information

Be clear with your basics and know about all the equipment being used in the industry along with their working principles and how they work. Also, you must be crystal clear with your project knowledge.

Sector: Mechanical.
Name: Rahul Venkatesh (2019H1060529P)
Company: L&T India

Profile: Post Graduate Engineer Trainee

Recruitment Procedure

Written test, technical and HR interview

Written test:

- The test was for 2.5 hours. It had technical and aptitude sections. Technical part was mostly simple numericals and theoretical questions. Gate preparation is sufficient. Aptitude portion was of medium level difficulty. It had quants, verbal and data interpretation.
- After the written test, around 20 people were shortlisted for the technical and HR round.

Technical and HR interview:

- Interview was with the HR panel and one technical person.
- I was asked to speak about the extent of digital penetration in India for a minute.
- Technical questions from subjects like SOM, IC engines, Turbomachinery, FEA and Material science.

Sources of Preparation

- Any aptitude test series, Arun Sharma CAT books, GATE notes

Courses and Certification

- Finite Element Analysis

Sector: Civil

Name: Aathira C P (2019H1300578P)
Company: WSP
Profile: Graduate Engineer - Highways

Recruitment Procedure

1. Verify G+ Aptitude Test :

    - Included analytical and cognitive assessment of 50 minutes.
    - Questions were of medium difficulty level, similar to the usual aptitude test pattern. Most of the questions were related to data interpretation and logical reasoning. Nothing was asked from the subject.
    - Mock test of 10 minutes was available for practice, just before the actual test. For further preparation, just google verify G+ sample tests. The actual test followed the same pattern of these sample tests.

2. Telephonic Interview :

    - After shortlisting from test, there was a telephonic interview with WSP professional which on an average took 30-40 minutes.
    - Questions included :
        - Introduce yourself, hobbies, creative things done in lockdown, what qualities do you think civil engineers should possess
        - PS details including project description, your contribution to project, softwares used, relevance of the project in industry
        - Basic questions like defining force, torque, momentum with practical examples
        - Highway Geometric Design and Traffic Engineering related basic questions like defining capacity, density, what is highway, what is alignment, how is basic alignment laid out, factors affecting alignment, types of roads
        - Questions related to drainage like define drainage, what will happen if drainage is not proper, how will we understand if a particular location requires better drainage facilities and how to develop drainage models, types of velocities related to drainage
        - Why WSP and not the current PS station, what do you know about WSP, what are the verticals and projects you are aware about
        - Name some codes and usage
        - Software knowledge, especially Civil 3D

3. Graduate Assessment Day : Shortlisted candidates from telephonic interview moved onto final assessment, which had 4 stages:

    - Technical Test : lasted 20 minutes, similar to the questions asked in the previous interview plus problems based on super elevation and drawing cross section elements
    - Interview : took 20-30 minutes, nothing technical was asked, most questions were related to PS project and previous work experience, panel was different from telephonic interview, so most of the questions were repetitive
    - Group Activity : lasted for half an hour; were given a topic and divided into groups of 6 people, had to discuss and come up with our ideas
    - Presentation : for 10 minutes after the group activity ended, we had to present our conclusions, it was open to us like either one of us could present or all of us, ppt was not mandatory, but we created one during the 30 minute allotted time of group activity and everyone presented their part within 10 minutes.

Sources of Preparation

Class notes and slides of highway geometric design

Courses and Certification

Brushing up Highway Geometric Design and Traffic Engineering would be useful, also go through whatever codes which have been used across the course

Other Relevant Information

Required CGPA cutoff was 7 and above across all qualifications (from 10th to highest qualification), without backlogs. Along with technical understanding, recruiters mainly looked for confidence, team spirit, time management, taking up responsibilities and communication skills.

Sector: Civil

Name: Gollakota Prathamesh (2019H1300572P)
Company: WSP
Profile: Graduate Engineer – Highways

Recruitment Procedure

1. Online test **–**

    - Verbal and Quant majorly.
    - You will have to answer all the questions or it will attract negative marking. Going back to previous sections is not allowed. Test was pretty easy, just the basic stuff and all of us cleared it.

2. Telephonic Interview –

    - The interview was a technical interview, basic questions about highway and drainage design, proficiency of code books and design standards, practices, it depends on the profile they will be hiring for.
    - They majorly concentrate on communication skills and how well we can express ourselves rather than worry about how technically sound you are.

Sources of Preparation
IRC Codes .

Courses and Certification
CIVIL 3D; Highway Geometric Design

Other Relevant Information

Sector: Civil.

Name: Sachin Kumar (2019H1300110P)
Company: WSP Consultant India Pvt Ltd.
Profile: Graduate Engineer Highway

Recruitment Procedure:

- Resume Shortlisted by Management team and then Interview held.

Sources of Preparation
Highway Geometric Design Concept by S K Khanna and C.E.G Justo

Courses and Certification
AutoCAD**,** Civil 3D, Infraworks.

Other Relevant Information

Questions they asked were about my internship at W S Atkins and the fundamentals of Highway geometric design. Some of them were why you joined WSP? And about some Standard codes, we use in industries for designing highways and some on training that I had done in the previous internship.

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Domain

Consulting

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Sector: Consulting Firm

Name: Chandrananthi C (2019H1290103P)
Company: Axiom Healthcare Strategies
Profile: Junior Analyst

Recruitment Procedure

Resume shortlisting, Online test, 2 rounds of interview

- Test had 3 sections:
    a) Essay writing
    b) Verbal - based on a short passage, the only type of question was to identify if the given statement can be inferred from the passage or not.
    c) Scientific writing – To write an abstract of the given research article.
- The test was for 90 minutes. It was important to maintain speed to finish all questions.
- Interview questions:
    a) Tell us about yourself.
    b) Questions based on our projects and internships.
    c) Follow up questions from what you answer.
    d) Case study- They care more about the thought process and logic rather than the answer.

Sources of Preparation
Online sources for quant, verbal reasoning questions. Case studies like guesstimates. Clarity about the projects that we have done.

Courses and Certification

Nothing as such.

Other Relevant Information

You need to be able to convince the recruiter about why you wish to join that organization and not work in some other sector (For example: Why into a consultation firm rather than research or higher studies)

Sector: Consultancy and Analytics.

Name: Chinmay Agarwal (2017A7PS0033P)

Company: Indus Insights

Profile: Associate

Recruitment Procedure

- Written Test – 5 sections namely quantitative aptitude, data interpretation, mental ability, logical reasoning and guesstimate. All the sections were MCQ except for the Guesstimate. In it we were supposed to type out our solution in a notepad kind of section given at the end. Number of questions were good enough so you had to maintain your speed at all times. Out of all those who wrote the test, 25 people were shortlisted for the first interview.
  (1) Quantitative aptitude – Time – Work problems and Numerical aptitude short questions were there.
  (2) Data Interpretation – Passages were given along with some kind of graph followed by 2-3 questions related to it.
  (3) Mental Ability – Questions based on series completion and finding missing patterns were there.
  (4) Logical Reasoning – Venn diagrams and assertion-reason based questions were there.
  (5) Guesstimate – There was just one question in this section. How much does the electricity used up by ACs in Delhi cost in a year?
- Guesstimate Interview – I was given a very standard guesstimate of figuring out the no. of Lays packets sold in a day at a railway station. It went on for around 20 minutes and was concluded before I could reach up to the final numerical value.
- Case Interview – This was an unconventional one. They asked me on how to maximise the profit if I have a wine yard in the US and I'm the only one in the entire supply chain i.e. from growing the fruits, processing them to transporting and selling, everything is managed by me. It was around 25 minutes long.
- CEO / HR Interview – This round was taken by the CEO and Founder of Indus Insights, Saurabh Sir. The round revolved around my interests and problems with online recruitment. From the resume only one question was asked.

Sources of Preparation

I read solved examples from Case in Point and Case Interview Cracked. Due to lack of time, I could only go through one from each of the framework of guesstimates and case interview. Luckily the

guesstimate I faced was very conventional and I was able to use that there but the case interview was purely based on the problem-solving skills.

Courses and Certification

No subject as such. Some numerical questions were asked from Principles of Economics during the case interview but they were of very basic nature. Preparing PoE and PnS could prove useful to numerically assist your hypothesis.

Other Relevant Information

PoRs or the courses matter very little as long as you are able to solve the problem given to you during the interview. Resume is not even asked until the final interview round.

Sector: Consultancy

Name: Vishal Kumar Jha (2017A1PS0756P)
Company: O9 Solutions
Profile: Consultant

Recruitment Procedure

- Resume Shortlisting, Online Test, Technical Interview
- The test consisted of two parts
    - My SQL
    - Aptitude test
- The test was comparatively easier than other aptitude tests. A basic knowledge of SQL was sufficient to answer the questions. Both the sections were timed. To complete the aptitude test, good speed in solving the questions is necessary.
- The interview round mostly was resume based, so knowing everything about what's written in your resume is important. The major discussions were on my projects done on the Data Science projects mentioned in the resume. Apart from that, some puzzles were asked in which you need to show your thought process and logic applied. Regularly trying out and solving puzzles will certainly help in developing it.

Sources of Preparation

Having a basic knowledge of SQL will help in solving questions in the test**.** Database Management course will certainly help in that. Solving the aptitude questions from CAT exam papers will certainly help. Also the aptitude series provided by the Placement Unit also helps a lot.

Courses and Certification

Courses covering basics of Data Science. Not compulsory, but having a basic knowledge will be an added bonus.

Other Relevant Information

The resume plays a very important role in any interview for any company. If anything is mentioned in the resume, make sure that you know all the relevant information regarding it.

Sector: Pharma/ Consultancy/ Analytics.

Name: Bhansali Mitesh Vinod (2019H1080534P)

Company: PharmaAce, Pune

Profile: Trainee Analyst

Recruitment Procedure

• Resume Short-listing, Online Test, Group Discussion, Interview

• Test consisted of 3 Sections: Quant, Verbal and Email writing

• Quant difficulty level was easy to moderate

• Half were directly qualified for interview following the test, other half had to go through the group discussion

• Interview questions:

o Tell us about yourself

o Why do you want to be an analyst?

o Will you be willing to shift abroad later in your career?

o What are your goals for near future?

Sources of Preparation

• For quant preparation: IndiaBix.com

• For HR round preparation: YouTube

• For Group Discussion: Mock GDs with classmates with your seniors as interviewer

Courses and Certification

• Excel courses: Beginner to Advanced

• Data Management courses: Python, SQL

Other Relevant Information

Sometimes in an interview after resume short-listing and other technical rounds the HR is confident of you as an employee, the only thing now they are looking forward to is your loyalty to the organisation. You can try to establish your loyalty by giving them the confidence that you are happy to move to the city of job and do not plan to change it in near future.

Sector: Consultancy

Name: Abhishek Yadav (2017A1PS0762P)

Company: ZS Associates

Profile: Decision Analytics Associate

Recruitment Procedure

1. Aptitude Test : To test your analytical and data interpretation skills
2. Deep Problem Solving : Case study given on a business problem. It requires fast interpretation from long reading passages. It's an MCQ test
3. Video Interview Round : The software records your video to judge your body language, loudness and fluency of voice while answering. Questions are behavioural like do you like to talk to people in office parties? Do you go with the flow or like to plan things? Give an instance for each answer. A few guesstimates could also be asked like how many tennis balls can you fit in an aeroplane? How much paint is required to paint one wall? You are given a total time of 3 minutes to answer each question while your video is recorded through the process.
4. Case study round : Questions based on data interpretation (charts and graphs). Make sure you attempt all the questions even if you don't know it fully as you're given a chance to explain your approach in the next round. The approach matters more than the actual answer.

   They might surprise you with questions like how would you sell TV in Pandemic or probability based questions involving Bayes Theorem, Conditional and Classical Probability in between you're explaining the answers of your case study round!

5. Fit-Based Interview : Typical questions like Why ZS? Why should we have you? Give instances for team work, adhering to strict deadlines. Expect a few guesstimates in the last round. They can ask that based on the place you belong from or any personal information you give. Puzzles can be asked in between too.

Sources of Preparation

Practice case study interviews with your buddies from books like Case Interviews Cracked, Day 1.0. Guesstimates and Profitability cases are a must do. Questions from Market entry cases and others are very seldomly asked. Revise the concepts I mentioned from Prob & Stats from your first year notes.

Courses and Certification

Python (Numpy and Pandas) , SQL, Excel, Probabilty and Statistics.

Other Relevant Information

A diverse profile is always a plus in Consulting. PORs, management tasks, internships make your resume look good and enhances your chances of being selected. Enroll in workshop/courses for interview and resume preparation which must include a few mock interviews to give you a feel of an actual interview.

Sector: Consultancy

Name: Piyush Bhatt (2017A3PS0206P)

Company: ZS Associates

Profile: Decision Analytics Associate (DAA)

Recruitment Procedure – There are multiple steps in the whole process

1. Resume Shortlisting

You can work with seniors and available resources online to make the resume

2. Preliminary Test – this includes 3 section, this complete round was 2 hours
   a. Quant – Easy questions, accuracy required
   b. Virtual Situational Questions (virtual HR) – questions like name one incident which taught you a life lesson, can you analyse the role with you point of view etc
   c. Data Interpretation – Easy questions based on provided charts and tables, not very related to the role, just to check basic skills
3. Case Study with follow up Interview - 2 hours
   a. Case Study – based on the position you have applied for, online test where they provide a case study similar to ZS campus beats, you get one hour to read and answer the questions. Solutions can be submitted by typing online or writing and uploading later.
   b. Interview based on Case study – Hour long interview where you walk through the solutions given by you while answering other questions related to the role
4. Fit (HR round) – 1 Hour
   a. This involves talking to a manager level interviewer, and answering questions about resume, past experiences, learnings etc.
   b. This might also include a guesstimate type question, for ex – I was asked to estimate the no of party halls required in my city (Think of multiple event types, population division etc

Sources of Preparation- Basic preparation required, Read books on case studies, watch YouTube videos of similar interviews

Courses and Certification- Nothing specific required

Other Relevant Information – The case studies are not typical Consultancy ones, but much easier and heavily data based

Sector: Consultancy

Name: Reetik Ranjan (2017A4PS0602P)

Company: ZS Associates

Profile: Business Operations Associate

Recruitment Procedure

- The whole interview process consists of 2 Phase
- Phase -1 (Consisted of 3 online parts held back to back)
    1. Aptitude Round – 45 MCQ questions (25 Verbal and Non-Verbal Reasoning + 20 English Questions)
    2. Problem Solving Deep Dive – A short case study followed by 8 MCQ questions based on it. (The objective was to check your decision making and business skills)
    3. Video Round – 8 questions flashed on the screen, and the candidate was given 3 minutes to record their response after each question. The questions were mainly of HR type, situation-based, and guesstimate type.
- Phase -2 (Case Study Round and In-person Interview)
    1. Case Study – A case study about the compensation distribution for the sales managers of a pen company. The candidates were given 45 minutes to answer the 4 questions based on the case study in A4 sheets and upload them on the website.
    2. Interview – The round was conducted on zoom. The interviewer had my response sheet uploaded in the previous round with him. He asked me to explain each of my answers and asked counter questions on them. After this, he asked for two simple puzzles and a guesstimate (Estimating the monthly revenue of a pizza chain in Delhi).
    3. Company Fit / HR Round – This round was also conducted on zoom. The interviewer had my resume, and the questions were mainly focused on my internship, projects, strengths, weaknesses, why they should hire me, etc. In the end, the interviewer asked a puzzle question.

Sources of Preparation

Look for puzzles on the internet. In ZS, most of the candidates were asked puzzles that can be found on the GeeksforGeek website. For case interview preparation, I found the book Case Interviews Cracked to be helpful. More practice questions can be found in B-Schools casebooks.

Courses and Certification

NA

Other Relevant Information

For ZS, the interviewers did not expect previous knowledge of any subject or technical skills, although this might not be true for other companies. The questions were mainly focused on checking your problem-solving, analytical, and communication skills, and approaching them with a calm, composed, and an open mind will help for sure.

Domain

ET

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Sector: ET

Name: Patel Roshankumar Subedar (2019H1060035P)

Company: Cypress Semiconductor Technology India Private Limited (An Infineon Company)

Profile: Operational Analyst

Recruitment Procedure

- Online Test, Interview,HR
- Test contains general aptitude, Supply chain and operations question, logical reasoning
- Questions:

a. Tell us about yourself

b. Follow up questions from what you answer

c. Supply chain and operations concept and question related to the project for the same.

Sources of Preparation

- Various books for supply chain and operations
- Youtube videos

Courses and Certification

- Supply Chain Management
- Operations Research

Other Relevant Information

Get good hands-on basics of SCM and operations.

Sector: ET

Name: Shashank S (2019H1120054P)
Company: Intel
Profile: Software Engineer

Recruitment Procedure

- Resume Shortlisting (mostly CGPA > 7)
- Round 1 - Telephonic Interview
    a. Tell me about yourself (asked some follow-up question on previous work experience)
    b. Project related questions – Details, high availability, features
    c. Other questions based on scaling, load balancing
    d. This round lasted around 35 mins.
- Round 2 – Skype Interview
    a. Started with questions on SQL (what is a cursor, joins)
    b. Few questions were based on the output of a code snippet.
    c. Questions related to operating systems (memory management)
    d. DSA question on finding the loop in a linked list. working code was expected.
    e. This round lasted around 45 mins

Sources of Preparation

- GeeksforGeeks, Leetcode, Gate concepts (Operating systems, Networking, DBMS)

Other Relevant Information

- Familiarity working with the low-level languages like c and c++ would be an added advantage

Sector: Semiconductor Industry

Name: Abhishek Singh (2019H1410594P)
Company: KLA Tencor India Private Limited

Profile: Application Engineer (Product Development Engineer,2)

Recruitment Procedure

- There are multiple rounds.
- **Resume Screening** - 75% overall (10th, 12th, BE, ME)
- **Written -** Since they shortlist people from multiple domains, so it does not typically have any technical questions as such. It will be having 25 question (60 Minutes) which will be distributed in 2 sections and both are non-technical. Aptitude, reasoning, English mostly. Level of questions are good. Almost 50–60% screened out.
- **GD -** This will have any topic. General neutral GD topic at least in my group. 50% will be screened out.
- **GT (Group Task) -** All the shortlisted candidate will be assigned to one group in my case as there were only 15–16 candidates left and then they will basically describe a problem. Yeah that will be completely and well explained by the concerned persons. In my case problem was related to the image processing and defect inspection but this could be anything. and this is the major elimination round. Only one left and all other got rejected so be careful in this round. follow all the instructions carefully and try to write algorithm rather than just end results.
- **Puzzle Round -** They will mainly ask you 3 puzzles and then you need to answer them. Again, focus on algorithm.
- **Guesstimate Round -** In this you need to randomly make guesses and then come to conclusion. Again, focus on algorithm. Such as, Take any city and guess the total no of petrol pumps in it.
- **Behaviour Round -** This will mostly sort of HR Interview.
- **HR Round -** This will be the last round, and this will mainly consist of normal HR conversation.

Sources of Preparation

Placement Material provided by PU. No technical expertise required for this job role.

Courses and Certification

Not required.

Other Relevant Information

This organization is more focused towards the problem-solving skill rather than just making some end conclusion, so my suggestion is, focus more on the algorithm part rather than just jumping to the end conclusion.

There are multiple rounds and all the rounds except HR and GD have no time limit. In my case most of the interviews were having timings near about 1 hour each. But believe me I have appeared in various interviews; this is the best experience so far. The interview is less of an interview but more of an interaction and they will even help you at all the steps.

Sector: ET
Name: Anand Kumar Singh (2019H1230542P)

Company: NXP Semiconductors
Profile: Design Engineer

Recruitment Procedure

- There were three stages in the overall recruitment process: -
  (i) Written Examination
  (ii) Technical Interview
  (iii) HR Interview

1.) Written Examination: -
The topics covered in the written examination were:
- General Aptitude
- Digital Design (Flip Flops, Counters, Synchronous and Asynchronous circuit design, FSM, Combinational logic – Realization of functions using MUXES, Decoders, Encoders, Number Systems, etc). Better prepare questions from DigiQ question bank.
- RC, RL, RLC Circuits.
- Network theory basics.
- Basics of Control Systems – Bode Plots, Lead & Lag Compensators
- Basics of Analog Electronics – Diodes, Rectifiers, Clippers and Clampers, BJT – Biasing and Amplifiers.
- Basics of MOS Device Physics – MOS Capacitors, MOSFETS,etc
- Basics of RISC processors, Cache Memories, Direct Mapped Cache, Set Associativity, Cache Miss Rate Calculation.
- STA based numericals

No Programming related questions were asked. Questions were both subjective and objective type. For subjective type questions, there was a schematic editor in which you had to pick up components and draw the circuits/ waveforms.

2.) Technical Interview: -
- Introduction – Give a brief introduction about yourself, where do you come from? What is your educational background? What are your interests (Technical Only)?
- First of all, they will ask the questions which you were not able to solve in the written examination.

- Questions related to RISC Project/Analog Design Project/Research Practice (If Relevant). Why stalling the pipeline is needed to overcome and data hazards and how do internal forwarding helps improving the overall CPI. Brief description of all other projects and your contribution to those projects.
- Leakage Currents in MOSFETS, Short Channel Effects, Drain Current Equation with Short Channel Effects taken into account.
- Basics of CMOS Inverters. In one question they asked to draw a CMOS inverter schematic and then interchange NMOS and PMOS positions i.e., NMOS connected to VDD and PMOS connected to ground.

Whenever you are solving the problem given in the interview, make sure that the interviewer is able to see what you are writing on the paper so that he could analyse your approach towards the problem.

3.) HR Interview: -

-Why do you want to join NXP? (Better refer to the pre placement presentation which takes place before the written examination.
- What do you expect from NXP?
- What are your long term and Short-Term Goals?
- People in your family, where do they work, etc?
- Location preference?
-Salary Expectations?

Sources of Preparation

1.) Digital Design – Practice from DigiQ Question Bank. Refer to Gate preparation notes for theory.
2.) Analog Design – Practice Gate Questions. Refer to CMOS Analog Integrated Circuits by Razavi. Also revise concepts taught in AICD course.
3.) Verilog – NPTEL Lectures by Prof Indranail Sengupta
4.) STA, Clock Tree Synthesis – VLSI Physical Design Lectures by Prof. Indranail Sengupta, NPTEL
5.) Low Power Design Techniques - VLSI Physical Design Lectures by Prof. Indranail Sengupta, NPTEL
6.) Physical Design Flow – TeamVLSI blogs, RTL to GDS II lecture series by Dr Adi Teman on youtube. Learn about different steps involved in Physical Design Flow, various file formats used in different stages.
7.) Metasability and Clock Domain Crossing – IEEE Papers.
8.) DFT, BIST, JTAG, ATPG - VLSI Physical Design Lectures by Prof. Indranail Sengupta, NPTEL
9.) VLSI Architecture (RISC preferably) – Classroom recordings by Prof Gurunarayanan.
10.) VLSI Design – Digital Integrated Circuits by Jan M Rabaey.

Sector: ET

Name: Arjun Kantilal Desai (2019H1230547P)
Company: **NXP Semiconductor**

Profile: **Design Engineer**

Recruitment Procedure

- Written test, Technical Interview, HR interview
- Written Test
  - Written test is completely technical which consist Analog, Digital ,Computer Architecture and device physics.
  - Test was moderate but slight twist in most of the questions.
- Technical Interview
  - In technical interview, two interviewers were there. One is completely focusing on Analog questions and second one is focusing on my academic projects.
  - In Analog questions some topics he asked like Band gap circuit, Op-amp, mix circuits which consists op-amp with mosfet and asking like how current will flow, voltage at any node, etc.
  - In academic project part he asked about FIFO design, Synchronizers, RISC Architecture.
  - From device physics they asked about technology node.
- HR Interview
  - In HR interview is like very friendly talk. He asked about my background and all.
  - He asked about location and profile preference.

Sources of Preparation

For written test GATE material is sufficient. For interview go through your projects and project related topics.

Courses and Certification

VLSI Architecture, Analog IC design, Advance VLSI Devices

Other Relevant Information

In most of the interview they were asking from your projects. So, if you are not comfortable in any project then don't put it in the resume.

Sector: ET

Name: Karthik G (2019H1230069P)
Company: **NXP Semiconductors**

Profile: **Design Engineer**

Recruitment Procedure

- Resume Shortlisting, Online Test, Technical Interview, HR
- Online Test
    a. Had both subjective and objective questions.
    b. Difficulty level: easy to moderate
    c. Questions focussed on Digital and Analog Electronics
    d. Circuit based questions need good understanding of flip-flops
- Technical Interview
    a. Self-introduction
    b. Questions about few of the projects mentioned in resume
    c. Other areas focussed: Static Timing Analysis, Interrupts in microprocessors, Verilog
- HR
    a. Questions on why I chose BITS Pilani for M.E, what I would like to achieve working with NXP.

Sources of Preparation

VLSI Design: Lecture notes, Digital Integrated Circuits by Rabaey

Static Timing Analysis: vlsi-expert.com

Courses and Certification

No courses as such.

Other Relevant Information

Online Test requires speed and accuracy. Need to have good understanding of projects for technical interview.

Sector: ET

Name: Sayan Banerjee (2019H1230076P)
Company: NXP Semiconductors
Profile: Design Engineer

Recruitment Procedure:

First Round-Written Test(Online mode):

The test is divided into 3 sections(all are technical sections):

- **Group A: This group consists of MCQ questions, which are based on fundamental concepts of Digital,Analog,Network Theory,VLSI Architecture.**
- **Group B: This group consists of subjective questions(which are not theory but numericals),questions were from Bode plots(determining the transfer function from the bode plot),pass transitor logic,pipelining and also from the operating region of BJT(Given a circuit with certain biasing condition,determine operating region of BJT).**
- **Group C: This group consists of problems related to design, here you need to draw the circuit, Questions were design mod 2 counter using DFF and the combinational cicuit and determine its maximum frequency of operation(all the parameters are given in the question),Another question was given a waveform(say input,output,clock) determine the circuit diagram.**

Second Round-Technical Interview

Many questions were from Analog IC Design subject like determine the poles of folded cascode differential amplifier,what is the advantage of cascode current mirror over normal current mirror,draw the circuit diagram of folded cascode amplier& cascode current mirror,obtain the expression of output resistance of cascode current mirror.Many question were from digital VLSI fundamentals like design sequence detector, calculate the delay the minimum and maximum delay of a given circuit.Many questions were from VLSI architecture like explain the difference between CISC and RISC, given a particular condition what would be your choice and why,explain pipelining using real life example, some question were from hazards its different types and how it can be avoided by data forwarding or stalling. Many questions were asked from my Research Practice topic like which current mirror should I use in this case.

Third Round-HR Interview:

The HR Interview was pretty straight forward usual HR,question like your family background, Why you are interested to join NXP etc. are asked.

Sources of Preparation:

- VLSI expert vlog
- Analog IC design lecture by Nagendra Krishnapura from NPTEL
- Rabeys lecture on Digital VLSI from YOUTUBE
- VLSI Universe vlog
- VLSI Architecture class lecture
- Gate/ESE previous year question bank

Other Relevant Information:

Have patience and keep your fundamentals crystal clear, try to relate whatever you are studying with real world problems, whenever you are transiting from one device to another(say normal current mirror to cascode current mirror)you should have conceptual clarity why we are doing, what advantage and disadvantage it brings upon transition etc., do not give undue preference to analog or digital domain even if you have good command in either of those it is generally expected by corporates to have understanding of basics of both.

Sector: ET
Name: Shubham (2019H1230075P)

Company: NXP semiconductors
Profile: Design Engineer

Recruitment Procedure: Online Test, Technical interview, HR.
ONLINE TEST:

- This round was mixture of objective and subjective questions and time given was enough.
- Both type of questions were technical.
- Question were from Digital electronics, Analog, control systems, network theory.
- In the subjective part we were asked to write every step involved in the solution and some subjective questions asked to draw required diagram like for a question related to counter we were asked to draw the diagram.

TECHNICAL INTERVIEW:

- This round started with mistakes that I had done in online test.
- First the asked me whether I am able to realize my mistakes and they asked for the correct solution of those questions and as soon as I told them the answers they moved forward and asked about the projects which I had mentioned in my resume.
- They asked me to explain complete CISC and RISC based processors which I had designed. Later they added some counter conditions in whatever I was explaining and told me to resolve that.
- After asking about projects they asked few questions of analog electronics related to diode, RC circuits , voltage doubler etc.
- This round took around 1 hr.

HR ROUND:

- Very casual interaction was there in this round which started with basic introduction.
- After introduction interviewer asked me about the reason of two years gap between ug and pg and I gave him genuine answer and did not beat about the bush.
- It was very interactive round and went around 30 minutes.

Sources of Preparation:

- VLSI expert blogs and VLSI universe blog
- Analog IC design lecture by Nagendra Krishnapura from NPTEL
- Rabeys lecture on Digital VLSI from YOUTUBE
- VLSI Universe vlog
- VLSI Architecture class lecture
- Gate/ESE previous year question bank

Courses and Certification:
Courses like VLSI design ,VLSI architecture ,Analog electronics were really helpful.

Sector: ET

Name: VIDHYA S (2019H1230081P)
Company: **NXP SEMICONDUCTORS**

Profile: **DESIGN ENGINEER**

Recruitment Procedure

Resume shortlisting, Online test, Technical Interview, HR Interview.

- **Online Test :** Test was easy. Questions were mostly from subjects like Digital Electronics, Analog electronics, microprocessors, VLSI Design, Analog IC Design, CAD IC Design, VLSI Architecture.
- **Technical Interview :**

    1. About myself
    2. Asked me to explain my favorite project and my role in that project.
    3. Asked about my Research project. Since that was related to VLSI Architecture, they asked more questions related to RISC, CISC, Pipeline architectures, hazards and stalling.
    4. They asked me questions from digital electronics mainly from areas like finite state machines and Sequential circuits.
    5. From VLSI design questions were mainly based on STA like setup and hold time violations, how to rectify them. Some Verilog questions were also asked.
    6. Asked me to design a circuit to generate a pulse wave with duty cycle of 2/3.
    7. Certain Application level questions related to implementation and design were also asked. For such questions they were not expecting exact answers they just want to see my approach and concept.
    8. Questions were always connected one to one. It depends on the previous answer I had given. Interview went on for about one hour.

- **HR Interview :** That was a cool one. They asked me about my domain preferences, details about my B-Tech collage as well as my experience at BITS. Why NXP? Also about my family, hobbies and location preference.

Sources of Preparation

- Digital and Analog Electronics : GATE notes and previous year GATE questions.
- VLSI Design : Rabaey and Class notes
- STA from VLSI expert : http://www.vlsi-expert.com/
- Physical Design : NPTEL IIT Kharagpur lectures
- VLSI Architecture : Lecture slides and Patterson
- Verilog : Samir Palnitkar, chipverify.com
- Aptitude : https://www.indiabix.com/ and Gate questions
- C programming : Geeksforgeeks

Other Relevant Information

Be strong in your fundamentals. If you are looking for a digital profile make your knowledge clean in FSM and Sequential circuits mainly latches, flip flops, counters. GATE level understanding is more than sufficient. Prepare STA and Verilog very well. Both are extremely important. You should have clear understanding about each and every line in your resume mainly projects. Prepare them well. An overall knowledge about physical design flow is enough. Basics of VLSI Design and VLSI architecture is fine. Spend more time and prepare STA and Verilog well.

Be confident and vocal through out the interview process. Don't hesitate to share your understanding. They always focuses on your approach and concept and will help you if you get stuck somewhere. So be calm and give your best.

Sector:ET

Name: Abhay Raj (2019H1230077P)

Company: Qualcomm

Profile: Hardware Engineer

Recruitment Procedure

Online test followed by 2 technical rounds followed by a HR Round.
Online test:
The test was divided into Aptitude , Programming and Technical Sections.
Technical Questions : The questions were of a good level covering digital electronics. Ex- FF conversion ,FSM , STA.
Programming Questions: The questions were on basic C concepts, knowing basic concepts will help in this section. Don't skip in preparation.
Online Interview:
The interview was conducted virtually, with two technical rounds of approx 45 minutes each. 1st Round: Introduction and questions based on projects. Majority of questions were from my Research Practice, VLSI Architecture and Digital Electronics courses. The interviewer asked me about the basic reason behind pipelining, definition of CPI and hazards in pipelining. Next he asked me two write a verilog code for a RAM block and then asked me to add synchronous reset to it(blocking / non-blocking). He asked regarding the synthesis of the block and how it would behave if we performed read and write to the block in the same cycle. He then asked me about my VLSI design course project and some questions on floating point arithmetic conversion.
2nd Round: There were a set of questions on basic digital electronics. I was given a circuit and had to provide the use of the circuit and then write verilog code for the same. The circuit was a synchronous counter with reset and load circuits. There were some more questions from digital circuits, I tried to explain while solving the questions and the interviewer guided me whenever I was stuck. He asked me about my education and then asked if I was comfortable working from Bangalore.
3rd round – HR round was very friendly .They informed me about my location and interview results and wished me luck for the future.

Sources of Preparation

Google - Vlsiuniverse, vlsiexpert, signoffsemi, asic world,vlsi system design, chipverify.com, electronics-tutorials.ws , NPTEL lectures from Prof Indranil Sengupta on verilog, power saving techniques., Lectures from Jan M Rabaey for Digital design.

For quick revision of C and aptitude- indiabix

VLSI Design and VLSI Architecture – Coursework lectures and Research Practice.

Courses and Certification

Digital Electronics ,VLSI Design and VLSI Architecture.

I had certificates for my competitions in UG.

Other Relevant Information

In case of online interview make sure to have a good internet connection and participate in formals.

Be comfortable in writing codes on online websites such as hacker-rank during interview. Be prepared in basic digital logic design questions and the verilog implementation of simple digital blocks such as RAM, Counters with Load/Reset, FSM.

C-coding questions on basic concepts, pointers and input-output help a lot. Aptitude helps in saving time during the written round. For technical round do cover DFT , STA and Verilog.

Sector: ET

Name: Akshay A Soni (2019H1400117P)
Company: Qualcomm India Private Limited

Profile: Embedded Software Engineer

Recruitment Procedure

- Resume short listing, online test, one technical interview and one HR interview
- Resume shortlisted on the basis of CG over 7
- Written exam (3 Sections - 20 question 30 minutes for each section):
    - General Aptitude: Main topics: Time and work, DI(lengthy), Speed and distance
    - Technical Aptitude: Main topics : Entire Digital Electronics, Amplifiers, Oscillators, CMOS
    - C Programming: Main topics: Pointers arrays and structure, Find the output type of questions
- Technical Round : (aprox. 1 hour) : Questions were majorly based on the following
    - Real time operating systems – Task Scheduling algo., memory management, MPUs etc
    - C prog – DSA(LL, Queues etc) , big-O notation, Bitwise operators, entire compilation and linking process,
    - VLSI Architectures: RISC - Pipelining, Inorder, out of order execution
    - Embedded Systems – ARMs exception entry and exit procedures (context saving stack, manual and automatic context saves, user mode and supervisor mode control switching. etc)
    - Device Drivers – Kernel modules, hot plugging, Block drivers and USB driver (I had a project)
- HR – Asked about one achievement that I am proud of and about overall experience of the hiring process, location preferences discussed.

Sources of Preparation

Aptitude: Indiabix

Digital: Gate concepts, Prev year gate question

C/C++: Geeks for geeks

VLSI Architectures: Lectures from Prof. Chandrashekhar and Prof. Gurunarayanan

RTOS: General OS concepts from udemy course, Meetha mam's lectures for RTOS specific concepts.

Courses and Certification

Device Drivers course is a must for those appearing for embedded profiles, it would help a lot to understand low level coding and hardware interactions and overall linux kernel, which is present in almost all the electronic devices these days.

Other Relevant Information

NA

Sector: ET
Name: Aserkar Akshay Sanjay (2019H1230074P)

Company: Qualcomm
Profile: Engineer

Recruitment Procedure

- There were four stages in the recruitment process namely an online test which was followed by two rounds of interviews and finally an HR interview.
- The online test had three sections:
    1. Quantitative Aptitude & Verbal Reasoning
    2. Basic Electronics
    3. C Programming.
- Part 1 of the online test had fairly straightforward questions asked. One may glance through any good reference book for tips and tricks.
- Part 2 of the test primarily focused on digital electronics. The knowledge of an undergraduate level course on the same would be sufficient. The level of the questions was easy to moderate.
- Part 3 tested candidate's knowledge in C and in data structures. In many of the questions, output of a code snippet given was asked. The questions would be challenging in nature for someone who had little experience in programming.

- In the first interview, I was asked questions on digital circuits mainly on counters and FSMs. I was also asked to write behavioral verilog code for a 2:1 mux and a priority encoder. There were other questions on set-up and hold time violations for a given circuit and ways to avoid them. I was then asked about the VLSI design flow followed by a question on difference between floor-planning & placement.

- The second interview was mostly based on STA concepts. I was given a circuit with other timing parameters and was asked to tell for any possible setup and hold time violation in any path of the circuit. There were 2-3 follow up questions on the same and each question was more complex than the previous one. **One therefore must have firm grasp on STA concepts**. The interviewer also asked some questions on the projects mentioned in the CV, primarily on the 'VLSI Architectures' course project.

- The HR manager was a friendly person and asked what my hobbies were and what do I know about Qualcomm. He also asked me to introduce myself and tell about my strengths and weaknesses. The interview was short and simple.

Sources of Preparation

For aptitude section one can go through Quantitative aptitude by R.S.Aggarwal. For digital electronics one can refer NPTEL course on 'Digital Circuits and Systems' by Prof. S. Srinivasan. The knowledge of this course would also be helpful for interview. For C programming revising concepts from 'Let Us C' by Yashavant Kanetkar would be helpful.

One is very strongly advised to go through 'Digital Integrated Circuits: A design perspective' by Rabey especially through the chapters focusing on CMOS inverters and combinational circuit design. A thorough knowledge of the VLSI Architectures course especially of the part concerning with the study of RISC processor would be beneficial.

The STA concepts can be studied from http://www.vlsi-expert.com or from https://vlsiuniverse.blogspot.com.

Courses and Certification

One can watch only **relevant and important** concepts from the following NPTEL courses.

1. Hardware modelling using verilog by Prof. Indranil Sengupta.
2. VLSI Physical Design by Prof. Indranil Sengupta.
3. Advanced Logic Synthesis by Dhiraj Taneja.

Other Relevant Information

The interviewers, not always seek correct answer. All they want is your approach to a particular problem. Therefore, clearly explain to the interviewer what your approach is or where you are struck if you are not able to solve a particular problem. They are kind enough to drop hints as and when required. Be confident about the answer you give, be it right or wrong. Perseverance and patience is all that one needs.

Sector: ET

Name: Neelanshu Varshney (2019H1230540P)
Company: Qualcomm

Profile: Engineer (Hardware Profile)

Recruitment Procedure:

- **Online Test**
  - It consists of three sections- Aptitude, C language and Technical
  - Each section had 20 questions and were given 30 minutes to finish each section, switching between sections was not allowed.
  - **Aptitude Section** was mostly number series, time- distance, work and data interpretation questions.
  - **C programming** had questions on output of a code, error, data structures, sorting and searching, arrays, linked list etc.
  - **Technical section** had questions from mux, flip flops and counters from digital electronics and few questions from VLSI design.
- **Technical interview**
  - There were 2 technical interviews of 30-40 minutes each.
  - **1st technical interview:** After the introduction, the interviewer share some questions on his screen. The first one was on Karnaugh's map with don't care condition, the second one was on the frequency of a digital circuit and some more questions on modifying the circuit. It concluded after few questions on one of my project.
  - **2nd technical interview:** The second interview also started with the introduction. The interviewer then asked questions on basic digital electronics like universal gate, circuit using only mux etc. Then the interview shifted towards my projects. I had mentioned 5 projects in my resume, so he asked several questions from the projects. The interview concluded with some questions on Verilog.
  - **HR round:** It was a 10 minutes interaction with HR. After a short introduction, she shared feedback of technical interview and asked about the preferred locations.

Sources of Preparation

- For aptitude, try to solve Made Easy aptitude book's 10 questions from each sections.
- For technical, gate notes of digital electronics are enough and should also go through VLSI design course structure.
- For C programming, refer to geekforgeeks.com website.
- For interviews, go through Verilog course, digital electronics, and VLSI design. For static timing analysis, try to solve atleast 10 questions from vlsiexpert.com. You should be clear about all your projects which are mentioned in your resume- software used, problems faced, uniqueness of your project, where your project lacks, what could be improved etc.

Other Relevant Information

- We were informed to get a stable connection with minimum 1 MBPS speed, and we could not move away from screen to avoid suspicious practice.
- All sections had individual cutoffs.
- The aptitude section was easiest of all, try to solve every question and do not waste time on a single question.
- Read topics related to your projects, like if you have a project on CISC architecture, read about CISC architecture, its difference from RISC architecture etc.
- Derive your interview towards your strongest section.

Sector: ET
Name: Neha Bharti (2019H1400123P)

Company: Qualcomm India ltd
Profile: Hardware Engineer

Recruitment Procedure :

1. Resume Shortlisting
    a) Based on CG cutoff
2. Written round
    a) Aptitude : Quantitative , Logical reasoning and data interpretation
    b) Digital Electronics
    c) Programming basics
3. Technical Interview round 1
    a) Verilog
    b) Digital Electronics
    c) Logical Puzzles
    d) C programming
4. Technical interview round 2
    a) ASIC flow
    b) VLSI architecture
    c) C programming
    d) Logical Puzzles

5. HR round : Team and location preferences and Questions like “What value I will add to the company?”

Sources of Preparation
STUDY IQ for aptitude, Geeks for geeks for Programming, Course materials for Technical

Courses and Certification
STA internship in Entuple technology

Other Relevant Information
Refer Planetskillss channel on YouTube for detailed interview experiences

Sector: ET

Name: Pranjal Khaparkar (2019H1400122P)
Company: Qualcomm India Private Limited

Profile: Embedded Software Engineer

Recruitment Procedure

- Resume short listing, online test, one technical interview and one HR interview
- Resume shortlisted: CG cut-off 7
- **Written exam** (3 Sections - 20 question 30 minutes for each section):
    - General Aptitude: Main topics: Time and work, Data Interpretation(lengthy), Speed and distance
    - Technical Aptitude: Main topics: Entire Digital Electronics, Amplifiers, Oscillators, CMOS
    - C Programming: Main topics: Pointers arrays and structure, Find the output type of questions
- **Technical Round (round 1)**: (approx. 1hour):
    - Projects
    - Pipelining concepts, Hazards
    - Cache concepts
    - Compiler basics, linking, loading
    - Debugging basics
    - Operating System basics, scheduling algorithm
- **Technical Round (round 2)**: (approx. 1 hour):
    - C programming questions – Linked list questions, optimisation of code, big O, Bitwise operation, function to read data from sensor on specific condition and write to given memory address
    - Real time operating system basic concept
- **HR** – Asked about location preference. Informed regarding job profile

Sources of Preparation

Aptitude: YouTube

Digital: Gate concepts, Previous year gate question

C/C++: Geeks for geeks, Mycodeschool

VLSI Architectures: Lectures from Prof. Chandrashekhar and Prof. Gurunarayanan

RTOS: Meetha mam's lectures

Courses and Certification

NA

Other Relevant Information

Refer to YouTube Channel : Planetsklillzz (lots of interview experiences from candidates for both VLSI and Embedded Jobs)

Sector: ET
Name: JAMMALAMADAKA NAGA RAVI SHANKER

Company: Qualcomm
Profile: Hardware Engineer

Recruitment Procedure:
Written Test:

1. It has 3 parts. Aptitude, C, Digital. 20 questions each.
2. Aptitude was the toughest and digital was the easiest.
3. Gate syllabus for digital is more than enough. Revising it once would be helpful.
4. Programming part has C MCQ's(find the error, what will be the output). It has some questions from python and other programming languages also. It is not easy and also not hard.
5. Aptitude was hard. Please do not waste time on paragraph type aptitude questions.

Interview 1:

1. Most of the questions are design based.
2. He asked me design circuits for a given output. For example, A 8-bit register data is changing randomly. Design a circuit which could count the number of 1's in it at a particular time. Also design it so that the output is obtained after 1 clock pulse.
3. There were other design questions also. He also asked me to write Verilog code for the circuit designed.
4. I would not say that the interview was tough. It depends on your state of mind. I was able to design all the circuits and answered all his questions.
5. Circuit design questions can be done easily if you do not prepare just for the interview. Design a question on your own, make it as hard as possible and do it. Only practice can help you get ideas during those high-pressure moments in the interview, otherwise you will freeze for sure.
6. So, interviewer was impressed, and I know that I will get the call for next round.

Interview 2:

1. Here also my questions were based on design only. But they focused on writing the Verilog code.
2. He asked me to write Verilog for SRAM, with some conditions on read and write operations. Then he changed the question a bit and asked me what the output would be.
3. One of the simple design questions was to design a circuit which would add all bits in a 10-bit number. Then he asked me to design a logic if the input has infinite number of bits.
4. Obviously, he asked me to code it in Verilog also.
5. It was one of the easiest interviews I've ever attended (My last question was to write the 2's complement of -3).

Both interviewers were very serious. 1st interviewer did not even look at my face throughout the interview. They jumped right into questions and no pleasantries were exchanged. I did not like the interview experience, but happy with the end result though.

HR Interview:

I think it was just a formality. Do not do anything stupid and you will be fine. She asked me about other interviews that I attended on that day. I told her everything, about why I could not get through Texas interview. She told me that she was impressed with my honest answer. There were no other questions and it ended in 10 minutes.

Sources of Preparation:

Truth to be told, I did not prepare for the drive, as we were informed just 2 days before the written test. But for written test, revise gate concepts for digital. Try to solve questions from IndiaBix, for C. Many people think IndiaBix is for only aptitude. But C questions that you get in written test would be very similar with what we have in IndiaBix. I never solved an aptitude question during preparation in my life, but I used to watch videos from ScoreMoreAptitude YouTube channel. Also try to read about STA from internet. None of my questions were based on STA, but generally interviewers ask it. Try to read Rabaey textbook if you have enough time. Watch physical design videos by Indranil senugupta. You should be very strong in Verilog. Project knowledge and research practice are important. VLSI architecture is one of the most important subjects and memory management is a must read for many companies.

Other Relevant Information:

One of the important lessons I learnt is that interview depends on only 2-3 questions. Rest of the questions are to kill time. So, do not think you would clear the interview if you answered all but missed 1-2 questions. Also, you might see other reviews saying that interviewer looks at your approach and not the end answer. This is true only for the questions he asked you to kill time. For the interview deciding 2-3 questions, he expects correct answer, which he thinks is right. Please try to give correct end answer for every question. Never ever say that I do not know. You have to try even if you do not know.

Sector: ET
Name: Sunita Panda (2019H1230541P)
Company: Qualcomm
Profile: Hardware Engineer

Recruitment Procedure

- Online Test, 2 technical rounds and 1 HR round

- Resumes are shortlisted based on a CG criteria of above 7 cgpa

1. Online Test (3 sections):
    a. Aptitude section
    b. C programming
    c. Technical section (mostly from digital electronics and vlsi design)

- You have to clear all the three sections to qualify for the interview (sectional cutoff).
- Test was easy. However, it is important to maintain speed to finish all questions.
- Questions from technical section were from DEC, VLSI design
- Questions from c programming need practice and a good grip on C. This section is the selection factor of the whole test. Go through GeeksforGeeks and Let us C book for practice.
- 1st Technical Round:
    a. Tell us about yourself
    b. TTL vs CMOS
    c. Implement 4:1 mux using 2 input nand gate
    d. There is a NOR gate. One input is A and the other input B is connected to the output. Draw the output waveform if A is '1' initially and then becomes '0' @ time 't'. What will be the time period of B
    e. Verilog code for swapping of two variables
    f. Blocking vs non-blocking statement in verilog
    g. Describe cad project that you have done
    h. What type of fsm you used in your project and why?
    i. Mealy vs moore
    j. Hazards in RISC. How to mitigate control hazards ?
    k. Sram vs dram. Why is sram faster than dram ?
    l. What is the use of a double pointer in c ?
    m. Difference between call by value and call by reference ?
    n. What is polymorphism ?
    o. Asked system verilog to which i replied this is in our 3rd sem syllabus
    p. RISC vs CISC

- 2nd Technical Round: (a bit tricky round. Checks your actual basic concepts)
    a. Tell us about yourself
    b. Showed a ckt and asked what it does . The ckt was a dff in which der was a clk input and Q is connected to D via an inverter. Also asked the max clk freq of the ckt. (it was a frequency divider ckt :div by 2)
    c. Asked about verilog and then showed a ckt and asked to implement it in verilog. Here he also asked how to avoid the inference latches
    d. "AB+CD" implement this using Nand and NOR
    e. Convert D to T ff
    f. Difference between toggle and delay ff
    g. There is a burst of digits (random pattern of 0's and 1's). how to find the count of number of 1s in it using combinational logic block
- HR Round:
  This is a not to worry round.
    a. Tell us about yourself
    b. What did you learn from your courses which are important for your job?
    c. what have you taken with you from your previous job (as i have a job experience)
    d. Asked about lockdown life and how you utilised it
    e. Asked about my family and then normal conversation.

Sources of Preparation

- All the vlsi websites from google : VLSIuniverse, vlsiexpert, signoffsemi, ASIC world, vlsi blogspot, interview-vlsi.blogspot.com,edn.com (must go through sites for interview)
- For C : GeeksforGeeks, Let us C book, prgramiz.com
- For Verilog : lect by Prof Indranil Sengupta in youtube (must see all the videos)
- For STA and timing related questions : VLSI universe
- Lecture of Prof Indranil Sengupta on youtube for topics like Testing of circuits and power saving , low power design.
- Digital electronics videos from Neso Academy
- practice Gate prev year questions on DEC and Basic electronics
- VLSI design : from Rabaey and Kang
- Vlsi architecture : Computer Organization and Design- The Hardware Software Interface by Patterson and Prof Chandrasekhar sir slides and lectures
- For CAD : go through VLSI cycle individual steps like floorplanning, routing, CTS etc. Physical design and verilog are important concepts.

Courses and Certification

- Must read courses are : VLSI design,CAD for IC design, VLSI architecture , Verilog concept and coding
- some other important topics are STA, VHDL, C programming, analog concepts, Python (sometimes it is also asked not necessary)
- Certification as such is not required. But if you are doing then that's an advantage provided you are able to answer questions.

Other Relevant Information

- Make sure you are fully familiar with your projects that you have done. Because sometimes the whole interview revolves around the project area. So go through the project work that you have mentioned in your resume.
- Always mention the courses in which you have a good grip on. Try avoiding keeping a lot of unnecessary and irrelevant courses in your resume thinking it will give you an advantage. it's not the case. if you mention something in your resume then be prepared to tackle the questions thrown to you.
- keep your resume just 1 page and talk about your project area briefly while giving an intro to draw attention to your forte area. This would make the interviewer ask the questions from there.

Sector: ET

Name: **Syed Wakash Ahmad (2019H1240560P)**
Company: Qualcomm

Profile: RF Transceiver SW Development Engineer

Recruitment Procedure

A Written round followed by 2 Technical & HR interviews.

1. **Written Round**: There were three sections. Negative marking scheme. Each section is allotted 20 minutes.

    - **Aptitude**: Easy to Moderate type. Time management is crucial.
    - **Coding section**: Easy to moderate type. Finding outputs and errors in C language related to pointers and data structures were basically asked.
    - **Communication or Digital Electronics**: Third section had a choice between Communication and Digital electronics. One can opt for either of them. I proceeded with Digital electronics section. One should Practise & revise all GATE questions and ESE one-mark questions to maximize score.

2. **First Technical Round:** This round was focussed on overall understanding of RF Transceiver design right from receiving signal at antenna to decoding of IQ symbols. Different design parameters trade-offs such as noise figure/gain and conceptual questions related to transceiver design were asked. This was followed by a coding round on Hackerank platform where focus was on C programming abilities. Array manipulation and pointer related coding question were asked.
3. **Second Technical Round:** This round started with focus on related Project/Research Practise done. This was followed by conceptual questions from Signal & Systems and Digital Signal Processing to validate basics. After this again a coding round on Hackerank platform was taken. This coding round was bit more rigorous. There were two questions from Bitwise programming and Array manipulation, respectively. I took some time to understand/approach and was continuously interacting with the interviewer to share thought process

and guidance to proceed on right track to solve it. Therefore, it is very necessary to be as much interactive with interviewer as possible as it helps them to guide, track and evaluate.

4. **HR round:** This was just to brief job role and confirm education background.

Sources of Preparation: RF Microelectronics class-notes for RF transceiver design. NPTEL and GATE notes for Signal & Systems. For signal processing class-notes were enough. Geeks-for-Geeks, Naresh Technologies and Mycodeschool YouTube channels were good sources to prepare for C programming. For Advanced digital and wireless communication class-notes as well as NPTEL lectures of Prof Aditya k Jagannathan is important.

Courses and Certification

RF microelectronics, Advanced Digital Communication, Wireless Communication

Advanced Digital signal processing

Other Relevant Information: Research practise and projects should be prepared and presented confidently as that can play key-role during interview rounds. While coding, do share your thought process to interviewer as approach is more important rather than solution. Also along with C, C++ knowledge is plus point.

Sector: ET

Name: Yash Varshney (2019H1230073P)
Company: Qualcomm India Pvt. Ltd.

Profile: Hardware - Engineer

Recruitment Procedure

1) **Online Test:** Had 3 sections as,
   a) Aptitude - Difficulty level is easy to medium can be prepared from online available sources generally.
   b) Technical – Majority of questions are from Digital Design part and some from Analog Design.
   c) Programming – Covers questions of OPPs concepts and C++ questions. Practicing questions based on finding output of sample programs related to pointers, arrays and on OPPs concepts itself would help.
2) **Interview:** 3 Rounds (2 Technical + 1 HR)
   a) **Round 1- Technical**
      i) Your brief Introduction
      ii) Questions were focused of STA (related to setup and hold time violation and their correction on Si chip and clocking period) and Verilog mostly (different types of modelling styles in Verilog and why we use specific ones).
      iii) Few questions from Project which were implemented in Verilog and SRAM too.

      Note: This round was moderate and questions mostly targeted basics of VLSI design, STA, Verilog. Having solid basics is always beneficial.

   b) **Round 2- Technical**
      i) Asked to go through full VLSI Design flow for an IC.
      ii) one or two random puzzles,
      iii) Asked to write Verilog code for a 4-bit shift register. (Similarly, others were asked to write Verilog code for modules like DFF, counter, multiplexer, etc).
      iv) Few basic questions on what is DFT and what's it's function in VLSI flow. No specific things or thorough questions were asked related to DFT as this course was not covered till placement time. Answer can vary depending on individual's knowledge at that time.

      Note: Writing Verilog codes for different types of modules like DFF, Counter, Multiplexer, encoder/decoder with their variants, etc. should be practiced before interview as this question was asked from everyone.

3) **Round 3- HR**
   a) The HR round was very short. Main things covered are regarding location of your employment and the domain you are going to work in company (it can be any stage of VLSI design flow like- Physical Design,

Verification, DFT, IP Design, Si Validation, etc.) will be decided as per company requirement at the time of joining and we have to continue with that role and location probably.

Sources of Preparation

Mostly covered the Courses studied in 1st year of M.E. Follow standard book of each course for thorough understanding as prescribed by ICs. One can get a compiled data from interview preparing perspective on www.vlsi-expert.com. Also, previous year GATE questions from ECE paper (Digital, Analog and CMOS related) would be very helpful.

For aptitude one can practice the aptitude questions from previous year GATE papers, that would suffice.

Regarding Programming section in online test, questions can be practiced on OOPs and C++ from www.indiabix.com. Output based programming questions can be practiced from www.geeksforgeeks.org.

Courses and Certification

No such certifications are required. Mainly courses to be covered are VLSI Design, VLSI Arch (CISC), Memory, CAD for IC Design.

Other Relevant Information

Since all Semiconductor companies are coming for Hardware profile so many of things to be prepared are common for all.

Since all interview are conducted online right now so help yourself with logistics that can best assist you to present your answers to interviewer in the meeting. May be one can use writing tab for easier explanation of answer or a small whiteboard to make your answers more presentable and clearer in virtual mode.

Sector: ET

Name: Tejas B S (2019H1400583P)
Company: Qualcomm
Profile: Hardware Engineer

Recruitment Procedure: 70% throughout was the eligibility to apply

1. Online test: Aptitude, Digital electronics concepts like counters, flipflops etc., a bit of Analog electronics for eg. Timers etc.

2. Interview: There were 3 rounds of interview, 2 technical and 1 HR. In the first round of technical interview, the main topics were RISC and CISC architectures, flipflops, counters, number system and inverter concepts of VLSI design. Apart from these STA (statis timing analysis) concepts to find out frequency of operation and calculation of jitter and skew. To write Verilog code for FSM's. In the second round SRAM, DRAM questions were and a few questions on the projects mentioned in the resume, the major question was to write Verilog code for a 3 but counter. HR round was more like a formality, HR informed a few basic things and asked about background and preferences.

Sources of Preparation

Gate notes for digital and Analog electronics, VLSI design and architecture from the course syllabus. Morris Mano, VHDL by Samir Palnitkar, vlsiexperts.com website for STA (static timing analysis). Indiabix for aptitude (R S Agarwal is also good)

Courses and Certification

VLSI design, VLSI architecture, GATE digital electronics syllabus and a bit of Analog electronics, Verilog

Other Relevant Information

- Aptitude questions in online test was a bit time consuming, be prepared.

Sector: Electrical And Electronics

Name: Virendra Singh Chauhan(2019H1400580P)
Company: Samsung Semiconductor (SSIR)

Profile: Senior Engineer (Hardware)

Recruitment Procedure

- Resume Shortlisting, Online Test, 2 Technical Interview, 1 HR
- Online test was fully Technical: Digital, Analog, C programming basics (Pointers), Questions on Memory (cache, some RAM basics on design), Microprocessor basic knowledge, Circuit analysis, Some question on Control system (Laplace transform).
- Test was not much difficult. However, accuracy needed more than speed. Total 48 questions in 72 mins.
- Interview: It was nearly an 1hr interview (Both Technical), with following question
    - Explain your project 32 based integer-based MIPS processor?
    - What is data Hazard (RAW)? Let say if 3 write instruction are present in EX, MEM and WB phases and a read instruction comes then will your design will able to detect the problem of RAW data hazard in this condition if yes then which instructions will be detected and which will not (tell in term of instructions in Ex MEM or WB form)? (Related to project)
    - What is blocking and non-blocking statement in Verilog?
    - What is UVM?
    - What are important classes in UVM class library?
    - What are classes defined in UVM environment?
    - What is the memory model used in UVM project explain the design?
    - What are the components present in UVM Object and UVM component?
    - Explain the structure of UVM?
    - One problem on Blocking and Non-blocking statements?
    - What is the type of Modelling that are done in Verilog? Explain each?
    - How will you form a 2x1 MUX using all type of modelling explain?
    - Puzzle: let say u want to give money to someone between 1 to 1000 Rs. If a person as you for some money to lend what will be the domination (number of coins) will u take and

minimum number of coins used such that any amount of money can be lend to the customer? Hint: Think digitally Solving the puzzle/having a logical approach to it is very important for the selection.

- HR interview was just a 5min conversation about me and my interests.

Sources of Preparation

- Digital Electronics – Morris Mano, Practice of gate Level questions, be strong with your basics of digital, analog Basics, Architecture designing, etc
- Should have a deep knowledge on your respective projects.

Sector: ET

Name: Mallikharjun Putrevu (2019H1230080P)
Company: **Tejas Networks**

Profile: **HW R&D Engineer (Board design/FPGA)**

Recruitment Procedure

Online Test, 2 Rounds of Interview

1. Online Test had two sections: Quant and Technical

    - Digital Electronics – based on combinational & sequential circuits, Verilog, FPGA fundamentals, VLSI Design fundamentals
    - Analog Electronics- based on opamps & their applications
    - Power electronics-Few questions on DC-DC converters and voltage regulators.
    - Network Theory

    Test was moderately difficult. Speed and accuracy are crucial to finish all the questions.

2. Round-1 Questions: (50 mins)
    - Tell me about yourself
    - Follow up questions on projects especially RISC-V based project- FSM implemented, why `timescale chosen is 5ns etc
    - Draw the schematic of XOR using CMOS(with min number of transistors) and also using 2:1 Mux.
    - I was asked to solve a numerical based on summing amplifier with opamp
    - Verilog code for D-flip flop with synchronous and asynchronous reset.

    By the end of the interview, I was explained the line of work at Tejas Networks and I was asked for my preference of the role (FPGA or Board Design).

3. Round-2 Questions: (1 hr)
    - Tell me about yourself
    - Questions based on Embedded systems – Processes at start up (boot-up), functionality of watchdog timers etc
    - SRAM vs DRAM, what characterizes their access times to be different
    - Follow up questions on Cache, cache hit rate etc
    - Draw the schematic of buck converter, derive V_{out} and I_{out} for a given duty cycle D.
    - What is Nyquist sampling theorem? Criterion for probing a circuit generating a square wave

- Draw transistor level implementation of flip-flop and derive set-up and hold time checks.
- Questions on Metastability, synchronizer and other CDC concepts
- I was asked to solve bunch of questions which were similar to those asked in the written test in about 5-7 minutes
    i. Questions based on STA, Opamps, Network Theory, Power electronics(voltage regulation questions)
- How does the router know whether the received data packets correspond to requested data packets? Techniques to resolve errors?
- What are the internal components of household mobile adapter? Draw the schematic, modifications for improving voltage regulation
- Draw the block diagram of PLL and explain VCO & its parameters.
- Few questions on Telecommunications technologies – FDMA, CDMA etc

Sources of Preparation

1. **Online Test**
    a. Questions relevant to GATE especially Digital Electronics, Analog Electronics and quant can be solved from any popular website (geeksforgeeks or indiabix)
2. **Interviews:**
    a. Be thorough with your projects mentioned on resume
    b. All the relevant coursework for ME Microelectronics

Courses and Certification

Graduate Level courses: VLSI Design , Analog IC Design , VLSI Architecture, Embedded System Design

Thorough knowledge of Verilog is required.

Undergraduate Level courses:

a. EE- Power Electronics, Analog Electronics, Digital Electronics
b. EC- Networks and Telecommunications, Analog Electronics, Digital Electronics

No other certification is required.

Other Relevant Information

Interviews were fairly difficult. My undergraduate studies were in EE so I could handle them to the most part. Interviews were engaging and it was more like a discussion.

Sector: ET
Name: P Arun Kumar Reddy (2017A3PS0286P)
Company: Tejas Networks
Profile: Engineer R&D

Recruitment Procedure

1. Online Test: Questions mainly from courses like Digital Design, ADVD and Basic Electrical Circuits. Quant questions were also included but were of lesser weightage
2. Interview Round 1: Questions were asked based on what I had written in my CV. Verilog code was asked for basic circuits, Simplifying Logic given a digital circuit, etc. Puzzle questions were also asked
3. Interview round 2: Questions were asked ranging from Basic Electrical Circuits to Digital Design from ADVD (Setup and Hold Analysis is a must)
4. HR: Just asked about interests, hobbies, etc

Sources of Preparation
Text Books and Notes were sufficient for Electronics courses. For Setup and Hold analysis, vlsi-expert is the best resource available. Also for puzzle questions, there is a curated list available on GeeksforGeeks

Courses and Certification
Electrical Science, Digital Design, MuP and ADVD

Other Relevant Information
None

Sector: Microelectronics
Name: Ajinkya Dhekne (2019H1230079P)

Company: Texas Instruments Inc.
Profile: Digital Design Engineer

Recruitment Procedure

- Written test: Aptitude(20Q- 30min), Analog section(20Q- 45min) and Digital section(20Q- 45min)
- Marking Scheme: 1 mark for correct answer, -0.5 for wrong answer
- Technical Rounds: Two and HR round: One
- Cutoff: 7 cgpa

Sources of Preparation

- **Aptitude:** CareerRide(Youtube), Gate level Aptitude Questions, Important topics: STD, Time and Work, P&L, Perc, Logical reasoning
- **Digital section:** Rabaey(Sequential and combinational circuits), Weste(Memories, power and delay analysis) and Kang(CMOS Inverter), Gate level Digital Electronics, Udemy courses by Kunal Ghosh, VLSI Arch(Class Notes). Important topics: Delay Analysis (Elmore delay), Power analysis, Logical effort, CMOS Inverter, Static Timing Analysis(VLSIExpert), Verilog(Freq asked questions by Shivkumar)
- **Analog section:** Chembiyan T(Youtube) for RC Circuits, All about electronics(Youtube) Important topics: RLC Circuits, Gate level analog design

Courses and Certification

- VLSI Design, CAD, AICD, VLSI Architecture

Other Relevant Information

- Separate cut offs for Analog and Digital section.
- Projects are important and any question can be expected related to the projects done.
- Explain the topics in depth to the interviewer with the help of diagrams and flow charts.

Sector: ET

Name: Desai Mohil Sandip (2017A3TS0445P)
Company: Texas Instruments

Profile: Digital Engineer

Recruitment Procedure

- Online test, Technical interview – 2 rounds, HR interview
- **Online test**
  - Test had 3 sections: 1) Analog 2) Digital 3) Quant
  - Analog section focused on op-amp, diode and RLC circuits and microelectronics.
  - Digital section mainly comprised of details from digital design and Verilog along with a few questions from CAD and microprocessor.
  - Separate time was allotted for each section and once the time limit for a section was over, you couldn't review that section again. Within a section, you could toggle through the questions easily.
  - Test was challenging and had negative marking scheme. It required both speed and accuracy.
- **Technical interview**
  - It covered wide aspects of digital electronics – VLSI Design, Digital Design, Verilog, Computer Architecture**.**
  - **VLSI design**
    - What causes delay in logic families?
    - Why is CMOS logic mostly preferred?
    - How will you select between a 3-input OR gate and 2 stages of 2-input OR gate based on performance?
    - How will you decide ordering of inputs of n-input gate, given their different times of arrival in CMOS logic?
    - How will you make a best switch? Explain strong 1 and strong 0 concept.
    - How will you generate clock signal using logic gates? How will you control its frequency?
    - Describe latch-up phenomena and methods to prevent it.
    - Draw VTC and I-V curve for CMOS inverter and explain regions of operation of NMOS and PMOS on the graph.
    - What is metastability? What causes metastability?
    - How will you check for setup time and hold time violations once digital chip is manufactured?
  - **Digital Design**
    - Make an FSM for detection of given sequence with minimum states.

        - State advantages and disadvantages of synchronous and asynchronous counters.
        - Design even parity checker whose input is a bit sequence.
    - **Verilog**
        - Differentiate between blocking and non-blocking statements in Verilog.
        - Write Verilog code for D-flipflop with synchronous and asynchronous reset.
    - **Computer Architecture**
        - Explain different cache schemes, types of cache miss, miss penalty, cache coherency.
        - What are wait states in computer architecture?
    - Apart from these, I was asked to explain my summer internship project which was based on high-level design and computer architecture.

Sources of Preparation

Morris Mano, Rabaey, Verilog – Samir Palnitkar (Important)**,** Computer Architecture – Lecture slides and class notes. Practice GATE MCQs on digital electronics. Some online sources:

- https://www.asic-world.com/
- http://www.asic.co.in/
- Look for STA tutorials (http://www.vlsi-expert.com/p/static-timing-analysis.html)

Courses and Certification

Digital design, ADVD, Verilog, Computer architecture (Recommended elective for digital profile), Microprocessor programming and interfacing

Other Relevant Information

Don't start answering haphazardly as the interviewer puts his question. Organize the answer in your mind before speaking. While solving a question, speak-out your thought process and steps to the interviewer as he is more interested in your approach than your final answer. Be thorough with your projects on your resume.

Domain

IT

Table of Contents

Sector: IT
Name: Alok Ayachit (2019H1490808P)
Company: Accenture
Profile: Business Analyst
Recruitment Process: Resume Shortlisting > Skills Interview > Technical Interview > HR Interview

Questions asked in the interview were completely based on what was mentioned in the resume:

Skills Interview:

- Introduce yourself
- Explain your job role in detail
- What are user stories?
- What is Reinsurance (this was the business domain in my previous job)?
- Why did you opt for Finance majors?

Technical Interview:

- How did you approach enhancements as a software developer?
- What are webservices?
- What is cloud computing? Explain SaaS and PaaS.
- What do you look for in a workplace?
- How have you planned your career path – 5 years down the line would you like to work in a team or as an individual contributor? What would you prefer and why?

HR Interview:

- Introduce yourself
- What were your favourite subjects in engineering and why?
- Questions on extra-curricular activities done while pursuing MBA.

Sources of Preparation:
PU Chronicles for Sem-I (2019-20), Mock interview organized by PU, Accenture website for information on their latest acquisitions, The Economic Times to stay updated on current affairs.

Courses and Certification:
Technical Analysis of Capital Markets by Forevision, Tableau Desktop from Tableau's official website. However, no question was asked from these in the interview.

Other Relevant Information:

The recruitment process may be conducted online. Do ensure that your system's requirements are met and you have a reliable internet connection. Keep all your documents handy. In case you need some time to answer a particular question, do not hesitate to ask the interviewer.

Be thorough with everything you have written on your resume. Prepare for some situation based/abstract questions.

Sector: IT
Name: Aaryan Kapoor (2016B4A70166P)

Company: Amazon
Profile: SDE

Recruitment Procedure

- Online Test, Technical Interviews
- Test had 4 sections:
  a. Code debugging (20 min) - Code is given with the introduction of how they are supposed to work but have a few bugs in them
  b. Coding test (70 min) – Questions were allotted from a database and so students got different sets. Most of the questions were easy to medium and used the concept of trees, graphs, hash maps, strings etc.
  c. Workstyles Assessment (20 min) – This or that questions to judge on how the candidates perform in different scenarios.
  d. Reasoning ability questions (35 min)
- 4 Technical Rounds were conducted for all candidates with elimination in each round
- Questions (Each technical round followed the same procedure):
  a. Tell us about yourself followed by discussion on projects or internships done before.
  b. Short answer questions from OOP, OS, DSA
  c. 1-2 DSA Problems with code, from Graphs, Linked List, Tree (binary and n-ary), hashing etc.

Sources of Preparation
Leetcode, GeeksforGeeks, Youtube channels like Abdul Bari, Back 2 Back SWE etc. Course slides for DSA, OOP, OS etc.

Courses and Certification
Data structures and algos was a major focus and in depth knowledge was required about it. This was followed by knowledge on OOP, OS and basic probability theory (for reasoning ability section).

Other Relevant Information
The interviews were focused on your approach to the problem rather than the actual solution. So, it was very important to think out loud. The interviewer would provide you with hints whenever they feel you are going in the wrong direction or missing certain cases. Also, it is important to communicate well in interviews about your work/projects. So, it is better to do some level of resume grilling with your friends to be well prepared.

Sector: IT

Name: Atith Gandhi (2017A7PS0062P)

Company: **Amazon**

Profile: SDE

Recruitment Procedure:

Online test:

- Aptitude (20 MCQs), 2 coding questions of easy-medium level.

Technical Round:

- There were 4 technical rounds wherein focus was mainly on Data Structures and Algorithms. In each round, I was asked two coding questions, along with some questions on CS fundamentals (OS, DBMS, OOP, Computer Networks) and some normal grilling on projects and internships.

- The difficulty of coding questions increased in each round but most of the questions were of medium-difficult level. Mostly concepts of graph, dynamic programming, trees, and arrays were tested in the coding questions. It is quite important to continuously discuss with the interviewer and explain your thought process about how you are approaching the problem, they are more interested in the approach than the final solution.

- The questions on CS fundamentals (OS, DBMS, OOP, Computer Networks) were quite simple and course slides and normal conceptual understanding of the course is enough for that.

- They also asked me to explain some of my projects and internships and some basic cross-questions on the projects and the work done during internships.

- There was no HR round, but the last round was a mix of HR + technical. There were some behavioural and situational questions asked in that round.

Sources of Preparation: Interviewbit, leetcode, geeksforgeeks, course slides, etc.

Courses and Certification: DSA, OOP, DBMS, OS, Computer Networks, ML(if you have done projects in this domain)

Other Relevant Information:

- I strongly recommend doing all the questions on Interviewbit **honestly**, the concepts covered are enough for the online rounds and interviews.
- Do go through your resume and be prepared for cross-questions, make sure you have enough knowledge of the domain in which you have done the project.
- Look at the past interview experiences of the particular company on geeksforgeeks and prepare for the interviews accordingly. Looking at some experiences you will understand the pattern of interviews of each company and this might prove to be very critical for last day preparations of the interviews.

Sector: IT

Name: Harpinder Jot Singh (2017A7PS0057P)
Company: **Amazon**

Profile: Software Development Engineer, Job Description

Recruitment Procedure

- apply for the Job in their portal and on Superset

- PPT > Online Test > 4 rounds of Technical Interviews

- CGPA cutoff – 6.0

- Online Test

  - Section 1 - Debugging Round, Questions were similar to those present here

  - Section 2 – 2 coding questions

    - Given an array of integers and a target value, find number of distinct pairs which sum up to target

    - Given 2 binary trees t1, t2, tell if t2 is a subtree of t1

  - Section 3 - There were 60 different psychometric type questions, see some questions here

  - Section 4 – Aptitude based questions

- Technical Intereviews

  - All rounds focused on DSA only

  - Last round had some questions related to Resume, and some HR type questions like What was the most challenging thing you did, biggest problem you faced, etc.

  - The variety of questions topics ranged from greedy, stacks, strings, BSTs, 2 pointers, data structure design. Some of the questions I was asked were

- Find largest BST in a given Binary tree. link

- Given an array, find minimum subarray sorting which sorts entire array, link

- Given a string, and an integer k, delete all k consecutive characters from a string, once u delete some characters, then u have to delete now from the modified string, eg: aabbcccb is a string and k = 3, the answer would be aa, link

- Design LFU cache, link

- given an infinite stream of strings, find the oldest non-repeating string on every insertion, similar to this

Sources of Preparation: Leetcode, Demux Academy, Course slides for OS, Ravindrababu Narula notes for Networking

Courses and Certification : DSA, OOP, OS

Other Relevant Information:

- For the interviews, Each meeting will be one-to-one interview sessions lasting approximately **45-60** minutes

- Amazon interviewers use a behavioral interview technique known as STAR. You will be asked to describe a Situation you were in, Task you had to do, Actions you personally undertook in that situation and the Results you achieved from these actions. The behavioral questions will relate specifically to our Leadership Principles and you are likely to cover technical elements in relation to the role in your answers.

- The overview of the recruitment process is provided below

- The competencies that you will be evaluated on are: https://www.amazon.jobs/en/

- Amazon Interview tips for your preparation is available on: https://www.amazon.jobs/en/

- To know more about Amazon you may visit: https://www.amazon.jobs/en/amazon

- Be confident, ask for help if stuck, interviewers are super helpful, think aloud, in one of my interview I was thinking loud and I said one approach but said then that it would not work, then interviewer pointed me that I was thinking right, and I should ponder over it. So, always think aloud, ask for help when stuck, and you will ace the interview :). Good Luck reader.

Sector: IT
Name: Ujjwal Gandhi (2017A7PS0143P)
Company: Amazon
Profile: Software Developer Engineer

Recruitment Procedure:

- Online Test: 4 sections, fixed time for each section. Conducted on Amazon's platform. Around 45 people were called for interviews.

  - Aptitude and LR: Standard. Nothing much to be talked about.
  - Code Debugging: Pretty basic and easy on your language of choice.
  - Workstyles Assessment: Choose your stance in between two work related arguments.
  - Coding Section: 2 coding questions, 70 minutes. For me, one was an easy map-based question and the other was a medium-level graph problem.

- 4 rounds of technical interviews followed.

- Rounds 1 and 2 were DSA based. Began with introduction and a little bit of resume discussion, followed by 2 questions each in both rounds from topics like Arrays, Stacks, DP, Graphs. Time complexity discussion for each question. Each interview lasted for around an hour.

- Round 3 was DSA focused initially. 2 questions - one DP and one Tree related. Lasted for around 90 minutes where last 30 minutes were all about theoretical questions from OOP, OS, DBS and Networking like:

  - Difference between Abstract Classes and Interfaces.
  - What is thrashing?
  - ACID properties and 1 SQL query.
  - What is a deadlock? What are its conditions?
  - What happens when you open a website? Vague question - I explained stuff about DNS requests, TCP and HTTP.

- Round 4 began with 3-4 Tree based questions (not very time consuming) and one Graph question. The round ended with a chess-game design question. It was vague so I discussed the OOP structure, but he wanted me to go in detail with the pieces specifically. Follow up questions on my structure and one on how multiple inheritance could be used in a particular case. Lasted for around 90 minutes.

Sources of Preparation:
LeetCode and GeeksForGeeks

Other Relevant Information:

- Be very sure of the time and space complexity of your algorithm. Getting it wrong is almost as bad as getting the solution wrong.
- Don't focus only on writing correct code. It is important to let the interviewer know your approach. Don't be silent. Speak your mind, explain your approach and then code. I was guided in one question where I was going wrong and was given a vague clue that I caught while talking.
- Don't try to write the most optimal algorithm straight away if you can't. Explain what comes to your mind first and then optimize. You might also get clues (target time complexity for example).
- Every round ended with the interviewer taking questions about Amazon. Try to engage a little to show your interest in the company.

Sector: IT

Name: Kunal Mohta (2017A7PS0148P)
Company: AppDynamics

Profile: Software Engineer I
Recruitment Procedure

- 1 Online round, 2 Technical Rounds, 1 Manager Round, 1 HR Round
- Online round:
  1. 15 questions – 12 MCQ, 3 coding questions
  2. MCQ had a mix of questions from OS, DSA, Aptitude.
  3. Coding:
     a. 3-value tuples given, count duplicates (simple hashmap solution worked)
     b. https://www.geeksforgeeks.org/find-a-point-such-that-sum-of-the-manhattan-distances-is-minimized/
     c. https://www.geeksforgeeks.org/count-the-number-of-ways-to-construct-the-target-string/
  4. I was able to pass all test cases for 2 coding questions and a few for the 3rd.
  5. 13 candidates were shortlisted for the next rounds.

- Technical Interview 1:
  1. Began with – Tell me about yourself.
  2. Then moved to **coding question** - Given a n x m chess board with certain number knights placed at different positions on the board. A knight can swap position with another knight if there is a valid move (knight's move) from one to other. Calculate the number of all possible unique arrangements after doing any number of swaps that are possible.
  3. I started off with suggesting a brute force solution for generating all possibilities. This had poor time complexity and was also difficult to implement. Then I told him that I was trying to model the problem into a graph, to which he responded positively. With a few hints from the interviewer I reached to a final approach –
     a. Consider the position of knights as vertices. An undirected edge exists between 2 vertices if the corresponding knights are swappable. We need to identify the connected components in the obtained graph along with the number of vertices in each connected component. Suppose there are 3 connected components with a, b, and c number of vertices in each, then the answer would be (a! x b! x c!).

4. I was asked to write code for the above approach on an online compiler (coderpad.io). I used DFS to implement the solution. I ran out of time for debugging a slightly complicated testcase, but the interviewer was satisfied with the code and algorithm.

- Technical Interview 2:
  1. Jumped right into **coding question** – Use appropriate data structure(s) to implement the following functions:
     a. merge (string key, string value) => if the "key" is unseen, store the (key, value) pair; if the "key" is already seen, then append the "value" to existing value that is stored.
     b. cleanup () => delete all the entries that haven't been used in the past 5 minutes.
  2. I used an approach similar to LRU cache implementation (https://leetcode.com/problems/lru-cache/). Used 2 data structures – a doubly linked list and a hashmap. The nodes of linked list stored "value" and corresponding timestamp. Hashmap stored a mapping from "key" to a pointer to corresponding node in doubly linked list.
  3. Then moved to **Operating Systems**:
     a. Why are threads preferred over processes when trying to make tasks/computations faster?
     b. Is there any issue if you keep spawning threads for each new task that arrives?
     c. What is a thread pool? (This was asked because I mentioned thread pool in my previous answer)
     d. How would you implement a thread pool to handle server connections? Write a pseudo code.
     e. How will you handle a situation where multiple processes are trying to access the same thread pool? Make changes to the previous pseudo code. (Use of semaphore expected)

- Manager Round:
  1. Tell me about yourself.
  2. Explain your project in the last internship.
  3. What does AppDynamics do and why do you want to work here?
  4. What is your favourite programming language, and why?
  5. What is a challenge that you faced in the past few years and how do you approach solving such challenges?
  6. What is a quality/skill that you track almost every day to check that you are improving on that? What is your metric of evaluating yourself on that?
  7. A few straight-forward questions from OOP – like what is abstraction?

- HR Round:
    1. Tell me about yourself.
    2. Which companies are competitors to AppDynamics?
    3. Why not masters or higher studies?
    4. Given offer from Cisco and AppDynamics, what would you choose? (asked because Cisco acquired AppDynamics) – you should not reveal the preference order that you filled in form, as instructed by PU.
    5. Explained a bit about CTC, perks, culture, etc.

- Finally, 3 candidates were selected.

Sources of Preparation

- If you have time (more than four months) then try solving as many questions as possible on **Leetcode**.
- Otherwise, **InterviewBit** has a good collection of typical interview questions.
- For CS theory (OS, OOP, DBMS, Networks):
    1. GeeksForGeeks
    2. Youtube channels like **Knowledge gate** and **Gate Smashers**.

Courses and Certification

- On-campus CS courses – DSA, OOP, OS
- DBMS and Networks was not asked for AppDynamics, but other companies can ask questions from these as well.

Other Relevant Information

- Start your coding-problem solving practice on sites like Leetcode and InterviewBit as early as possible. It takes time to get a hang of solving coding questions.

- Don't leave CS theory for a day before your interviews. It will be overwhelming on seeing the enormous content that there is, which can in turn lower your confidence. Plan your preparation considering the fact that you might not get time to properly revise anything a few days before the interviews.

Sector: IT
Name: Aditi Mandloi (2017A7PS0160P)

Company: Atlassian
Profile: Software Engineer

Recruitment Procedure

- Resume Shortlisting, Online Test, 2 Technical Interview, 1 HR / Values Round
- Online Test: The time duration was 90 mins and there were 3 coding problems.
- Test contained easy and medium - hard level questions. However, it is important to maintain speed to finish the questions.
- Interview Rounds focused on the problem solving, each round had 1-2 coding questions, numerous questions on computer science fundamentals from OS, DBMS and OOP.
- You should have a good in-depth knowledge of the projects that are mentioned in resume.
- HR round had certain behavioural questions and situation-based questions. This was based on Atlassian's core values and the interviewer checked if you are culturally fit or not.

Sources of Preparation

- Coding Practice: LeetCode/InterviewBit for easy~medium and medium~hard problems
- Past interview archives on geeksforgeeks.

Courses and Certification

Computer science courses DSA, OS, DBMS, OOP.

Other Relevant Information

Practice enough coding problems to maintain speed. Also make sure to revise computer science core courses before the interview.

Sector: IT

Name: Raj Sanjay Shah (2017A7PS1181P)
Company: Atlassian
Profile: Software Developer

Recruitment Procedure

- Resume Shortlisting, Online Test, Technical Interview 1, Technical Interview 2, Values Round
- Test had 3 questions on the hackerrank platform: One question was of easy difficulty level, one was medium and one was hard.
    a. Easy question: This was a really simple problem(50 pts) but **R** was the only allowed programming language.
    b. Medium question: Required candidates to know merge sort well.(75 points)
    c. Hard question: Was a DP based question on subarrays and gcd.
- Technical Round 1:
    a. Coding Question: We have to decide the winner amongst the candidates in a voting process. Basically, I am given a list of strings. Each string represents the name of a candidate. The no of times the string appears in the list gives the no of votes he has got. Use a map (ordered or unordered) and count their occurrences. The string(name) having the highest occurrence is the winner. But how do we handle a tie?
    b. Discussions about my projects and my learning outcomes from the projects I discussed.
    c. OOP concepts like the pillars of OOP and multithreading.
- Technical Round 2:
    a. In depth discussion about my Bitcoin based project. The interviewer asked questions like public key encryption, SHA 256 and few other cryptography based questions in the context of Bitcoin. The interviewer knew about Bitcoin and asked me many questions about the project methodology and future scope.
    b. OS questions like semaphore and deadlock.
    c. Coding question based on strings.
    d. Go Back N protocol, selective repeat protocol in computer networks.
    e. Lot of discussions on my approach to tackling any coding problem

- Values round: Atlassian has a values round where two senior members of the engineering team try to gauge your compatibility with the values of the company. Make sure to think of instances related to your projects and internship experiences that are relevant to the values of Atlassian and mug up the values of Atlassian so that you can quickly think on your feet and portray your work to match with the right value.

Sources of Preparation

Do interviewbit, geeks for geeks well along with some of the core concepts in courses like DBMS, OS and OOP. Stick with any competitive coding website rather than jumping around thinking the other ones are better. Make sure whatever you do, you do it well. The questions they ask in OS and Comp Net are very repetitive in nature so make sure you prepare the most popular questions for these subjects.

Sector: IT

Name: Siddharth Purohit (2017A3PS0351P)
Company: BNY Mellon

Profile: Software Development Engineer

Recruitment Procedure

- One online coding round followed by two technical interviews and then one HR round.
- Coding round had 4 questions of different difficulty level : 1 easy(50 points), 2 moderate(75 points), 1 hard(100 points)
- 8 students were shortlisted.
- 1st Interview: Two programming questions related to arrays on codepair platform, basics of OOP and resume projects and a standard gfg puzzle.
- 2nd Interview : Extensive round : Three coding questions on codepair-
  1. First, on arrays - told 3 solutions with better complexity every time then coded and ran the best solution
  2. Second question on strings, Leetcode medium to be ran successfully on codepair.

  Intern project discussions, OOP questions and 1-2 aptitude questions.

- HR round : Generic HR question, Resume points

Sources of Preparation
GFG, Leetcode,Online video lectures

Sector: IT

Name: Aditya Vaish(2017A3PS0379P)
Company: Cisco Systems
Profile: Software Developer (Cloud Application Development)

Recruitment Procedure
ONLINE TEST: 3 coding questions, Questions were on String manipulation, Binary trees and DB, Question were of medium level on leetcode. I was able to solve all 3 questions within time.

- INTERVIEW: Those shortlisted were called for interview. There were three rounds of interviews (2 technical + 1 HR).

- 1st technical round: Tell us about yourself. In depth discussion about projects from resume and follow-up questions. My Projects on cloud application development in my summer internship which gave me an edge over the other candidates. There were some questions on linked list but no code was required. Questions on Computer Networks and operating systems were asked.

- 2nd tech round: An in-depth discussion about my projects. Discussion began with OSI model in Computer Networks and went through each layer. There were some questions on BST and hashmap but I was only asked to give solution and complexity analysis (no code was required). Both the interviews were mainly focused on practical application of Networks and operating systems.

- HR round: Why Cisco? Why IT? Why not MS? Location Preferences.

Sources of Preparation
- GeeksforGeeks
- InterviewBit
- Leetcode

Courses and Certification
None.

Other Relevant Information
Although my branch was not computer science nor have I done any Computer Networks course the interviews were entirely based on CS fundamentals. Computer Networks and OS are must. Even though I was not asked to write any code, most of my peers had multiple coding questions during their interviews with code required.

Some common OS topics/questions asked : MultiThreading, Paging, Page Replacement, Thrashing, Semophores, Process Scheduling and Disk scheduling.

Some common Computer Networks topics/questions asked: TCP v/s UDP, Classless IP Addressing, DNS Query resolution, Fragmentation, Congestion Control, Routing Protocols, IPv4 v/s IPv6, Cyclic Redundancy Check(CRC).

Sector: IT

Name: Arun Motilal Maurya (2019H1120062P)
Company: **Cisco Systems**

Profile: Cloud Application Development

Recruitment Procedure

- Online Test, technical round1, technical round 2, HR round
- Test had 2 sections:
    a. MCQ type questions from the fundamental subjects of computer science.
    b. 2 coding questions
- Test was easy. But it is important to manage time and give appropriate time for coding questions. Going back to previous questions is not allowed. 2 coding questions, one will be medium and other will be a bit difficult. (Difficult also because of the time limit imposed.)
- Questions:
    a. Tell us about yourself.
    b. Follow up questions pertaining to what you answer.
    c. Questions related to your projects mentioned in the resume and follow up questions.
    d. Scenario based questions like, how would you start if you need to create an android app for a hotel from scratch that can become easily scalable too later. (They expect you to think in every aspect and look at your approach. Like backend, frontend, whether using cloud services, system design, API use or not etc.)
    e. Coding questions. Bit masking questions were asked. Ask for clarifying information if necessary. And speak up your thought process even if you can't arrive at a solution. They will help you by providing hints after you have put in sufficient efforts.
    f. More technical questions in technical round 2 will be asked from core subjects like networking, operating systems etc. They drill down into the specifics to check till which granularity you can handle your core subject knowledge. Answer what you are sure about and don't guess.

Sources of Preparation

- I participated in Codechef Long Challenges and Lunchtimes.
- I participated in Google Kickstart whenever possible.
- Practiced coding from Codechef, Leetcode, HackerRank, GeekForGeeks.
- Watched video lectures of DSA and algorithms of Abdul Bari and Tushar roy.

Courses and Certification

- I had a coursera certificate of GCP Big Query which is relevant to the domain the job profile offered was.
- I also told the interviewer about my ongoing yet to be completed courses of Amazon AWS courses.

Other Relevant Information

- You should be able to defend your projects and any work you state that you have done with your knowledge/ experience in that area.
- You should be able to display a willingness to work in the organization even if you get another better paying job offer.
- If possible, you should research about the job profiles beforehand and should have slight knowledge about what work is expected from that job profiles so you can ask questions in the end when the interviewer gives you an opportunity to ask them questions.

Sector: IT

Name: Ashirwad Pradhan (2019H1120043P)
Company: **Cisco**
Profile: Software Engineer - Cloud Application Development

Recruitment Procedure

Round 1 (Online Test): This HackerRank test consisted of 15 MCQ's and 2 coding questions which had to be solved within 60 minutes. The MCQ's were mainly based on CS fundamentals consisting of computer networks, DBMS, and Operating Systems, and few questions were related to bit manipulations. Solving previous year GATE 1 mark Technical MCQ's were enough to do well in MCQ's section.

Coding Questions:

1. You were given a list of strings which indicated at what time of the day an employee of a company checked in and checked out of the company on a particular day. Input was in the form of <Employee_Name>, <In_Time>, <Out_Time> (comma separated).
   Eg:
   Alice,10:23:02,13:04:45
   Bob,09:00:43,12:03:21

   The time was always in HH:MM:SS 24-hours format. You were given a time of the day as query <Query_Time> Eg: 11:00:56. We have to determine how many numbers of employees were present inside the company at the point in time (Query_Time). In these examples, o/p should be 2 (Reason: Alice and Bob both are inside the office at time 11:00:56).

2. You were given a 3×3 matrix consisting of numbers between 1- 9. Finally, you have to arrange the matrix in the following format
   1 2 3

   4 5 6

   7 8 9

   In the original matrix, only the following operations were allowed to convert the matrix. Operation – You can exchange two adjacent numbers only if their sum is a prime number. Find the minimum number of exchanges needed to reach the final(goal) matrix.

The trick to passing the round was to focus on solving the easy coding question first and then complete as many MCQs as possible. Then after completing the aforementioned parts move to the difficult question.

Note: For some weird unknown reason in this HackerRank Test option to code in C++ was unavailable. The only options were C, Java, and Python. Therefore, at least be comfortable with at least one other language other than your main CP language.

Since this happened during the Covid-19 pandemic all the following interview rounds were virtual interviews conducted on Cisco Teams. The coding question was solved by sharing the screen with the interviewer (Any editor can be used – Notepad/VS Code etc.)

Round 2 (Technical Interview):

This interview started with a brief introduction of myself and then quickly jumped to the discussion of the different projects that I had done. It was a 10-minute discussion. As my project was based on cloud computing following project-specific questions were asked:

1. Which hypervisor did you use?
2. How Does VirtualBox work? What is the kind of virtualization there?
3. Why didn't you use OVA's? Why did you implement the infrastructure from scratch?
4. What is an ISO file?

Then the interviewer gave me an easy recursion/loop question. The question was to print a pattern based on an integer.
Eg:
I/P: 4 O/P: 4321 - 4321 - 4321 - 4321
I/P: 3 O/P: 321 - 321 - 321

The interviewer checked for all the corner cases and made sure it worked for a set of inputs.
Then he switched over to theory questions:

5. Different layers in the OSI model and explain what is the role of each layer. (You are expected to know about Presentation and Session layer as well)
6. Describe what happens when you send a message to your friend in WhatsApp (Open Ended Question). You will have to ask the interviewer what he wants to answer. For example, given this question, one can answer regarding end-to-end encryption or System design aspects of Whatsapp or how the message is passed from one layer to another layer in the OSI model.

In my case, the interviewer wanted to know about how the message is encapsulated in OSI layers starting from the application layer to the physical layer in the sender side and how it is read when it reaches the receiver.

7. Now he asked me “What do you know about different kinds of memory in OS?”. (Open Ended Question). Here again, I had to make sure I answer what he is really expecting to hear. In this case, he wanted to know about memory management in OS.
8. Then he asked me about different IPC processes. Asked questions about shared memory, message passing, and pipes. How to message passing and pipes are different ?.
9. Then he asked a few questions on Deadlock and what are the conditions for a deadlock to occur.
10. Then he told me that I have 10 minutes to code a Stack. He did not tell me anything beyond this. You will have to ask questions like what methods do he need. Should it be implemented using Linked List or Arrays etc?
    I initially coded using an array with the top(), push() and pop() functions. He verified that it is working by checking on a sample test case he already had.
11. Then a follow-up question was asked based on the previous question. In the previous question, I had made the size of the array static but the interviewer was expecting to know how we can design a stack without putting a max size constraint. He was expecting the implementation of dynamic arrays. I explained to him the approach and he was satisfied with it.

This round lasted for around 1 hour 10 minutes.

Tips: Be very clear with the basics. That is the most important. If you make mistakes in a complex question then it’s fine but if you miss the basics then it does not look good.

Round 3 (Technical Interview): This round was the most chilled out round and one of the best interviews I have ever given. The interviewer was quite a charming guy and was very relaxed/chilled. First, he introduced himself and explained his work at Cisco. Then he asked me about my interest areas and projects which I had done. Interestingly his interest areas and mine matched (We both shared common interests in Cloud Computing and Distributed Systems). Then followed multiple discussions on varied topics mentioned below. It was not a question and answer session as most typical interviews are supposed to be. It was more of a chat session between two people sharing the same interest areas as we both were discussing our own views/opinions on how cloud technology has helped our lives become better.

As my projects in the resume were based on Cloud Computing and Distributed Systems and I was getting interviewed for the Cloud Application Development role it was expected of me to know these topics. This round is **very specific to the role** you are interviewing for. We had a deep discussion on the following topics.

1. Microservices vs Monolithic architectures
2. Consistent Hashing and Load Balancing
3. Read-Write Quorum
4. Infrastructure as a Code (Ansible and Terraform)
5. REST API's
6. How did you set up the infrastructure in your cloud project?
7. Authentication vs Authorization
8. Two factor Authentication
9. Salting of passwords
10. CAP theorem
11. MapReduce vs Spark

Then he asked me why do I want to join the industry and why did I choose Cisco?

This round lasted for around 40 – 45 minutes.

Tips: Be enthusiastic about your area of interest and always have hands-on experience with the concepts in your area of interest. This helps a lot during the interview. Sometimes some interviewers do expect a few implementation details. Be thorough with the resume with each and every tech word/ buzz word used in the resume should be revised. The interviewer can ask any point mentioned in the resume.

Round 4 (HR Interview): This was a very short round. HR asked me to introduce myself and asked me about my past work experiences. He asked me why I went for the Masters and the reason behind it. He briefed me about what the team does and what is my role if I join the team. Then he asked me why I was interested in Cloud technology. Then I asked him about how a routine workday feels like at Cisco? After this, the HR round was completed. This round lasted for 10 – 15 minutes.

Tips: Be truthful and clear while conveying your ideas.

Sources of Preparation

For Coding - GeeksForGeeks, InterviewBit, Leetcode

For Theory - GATE Notes and LMN's from GeeksForGeeks

Sector: IT

Name: Ayush Bhatnagar (2019H1030013P)
Company: Cisco Systems
Profile: Software Engineer

Recruitment Procedure

- Online Test, Technical Interview, Technical + Managerial Interview, HR Interview
- **Online Test** (1 hr duration) had 1 coding question and rest were MCQs.
    a. Those who solved the coding question were all selected for the interviews.
    b. I would suggest to first attempt the coding question, as it had more weightage than the MCQs.
    c. In coding question if you are not able to find out the optimized solution, code out the brute force solution, as each test case may have some points.
    d. MCQs were simple, maintain good speed. There was no negative marking as such.
- **Technical Interview Round (1 hr duration)**

a. In this round the interviewer went through my resume, and asked me to give the general introduction for various projects I had listed. Then he went ahead with the technical subjects (Operating System and Computer Networks) I had mentioned on my resume and asked questions on those. The questions were easy to moderate level. Then he asked me three coding questions. All the questions were on linked list. He asked me only the approach for the first one, whereas to code the rest. The questions can be found on must do coding questions list on geeks for geeks. After writing the code, he was also interested in dry running it on sample inputs. (Suggestion: Please check if all corner cases have been covered).

- **Technical plus Managerial Round (45 mins duration)**

a. This round was taken by a manager. The round started with my general introduction. He then switched onto the projects mentioned in the resume. The discussion on projects in this round was quite intense and thorough, as he wanted to check the level of understanding and my role of work in those. Some situational questions were also asked in this round. Few standard questions on technical subjects were asked in this round. And he ended the round by asking why do you want to join Cisco.

- **HR Round (15 mins duration)**

a. In this HR asked very standard questions like Why Cisco? And other things like, about work location preference and other things. This round was more of like giving information about your preferences on various things to HR

Sources of Preparation

For technical subjects: Revise your class subject notes. Online youtube channels like Ravindrababu Ravula and Sanchit Jain for various computer science subjects can be very useful.

For coding questions: leetcode, geeks for geeks, and interview bit. Gfg have a must do coding questions list topic wise. Leetcode's top 100 interview questions. Preparing from these sites will help you in almost any company that come for placements.

Courses and Certification

Not relevant

Other Relevant Information

In your resume only mention those things, which you know and can explain to the interviewers, specifically when it comes to projects. Do not mention any project you have little or no idea about. Often you may find yourself with a question like Why do you want to join their company? For this, what you can do is, whenever a pre placement talk happens for that company, note down or remember few points they tell in that presentation. And bring those points while you are answering that question. This gives a really good impression of you being attentive and also highlights your interests in joining their company.

Sector: IT

Name: Bilwasiva Basu Mallick (2015HS030020P)
Company: **Cisco**

Profile: Software Engineer- II

Recruitment Procedure- For Internship, 2020.

Online Coding Round-

1. 1 hour Test in Hacker Rank platform. 1 string based DP question & 30 MCQs.

Interview Round 1-

1. Reverse a Linked List using Stacks [was told to Code required Data structures from scratch, without using C++ STL].
2. Find a loop in Linked List. Was asked to clarify both techniques of 2 pointers & hashing.
3. Questions on OS [Paging, LRU, Belady's Anomaly], CN [TCP/UDP, OSI layer]

Interview Round 2-

1. Questions from projects, Bachelor's Thesis, past internship work.
2. Simple puzzles- "Dragon vs Knight", "1000 door problem".
3. OOP Concepts & high-level design of a library system along with preferred Design Principle.
4. Why Cisco? HR level questions.

Interview Round 3-

1. Not an official technical interview round as such. Interviewer being a EEE Bitsian himself, asked about random topics after some steady state-hold state questions since I did my BE in EEE.

For PPO after Summer Internship, 2020 at Cisco- we had no more internal round.

Sources of Preparation

GFG, LEETCODE

Courses and Certification

DSA, OS, CN, OOP

Other Relevant Information

Be calm & cool throughout the interview. Stay Focused. You will perform well. All the Best!!!

Sector: IT

Name: Eyanshu Gupta (2019H1030018P)
Company: Cisco
Profile: Software Engineer – Network/Embedded/Application Development

Recruitment Procedure

Resume Shortlisting, Online Test, Technical ,Managerial , HR

● Online Test had 15 questions:

❖ 13 MCQ and 2 coding

● MCQ's were easy. 1 Coding question was very basic and other was of moderate difficulty.

● My technical round was a bit long and it mostly was composed of lots of coding problems that I had to solve while sharing my screen and typing the code. The interviewer asked me the reasoning behind things as I went on typing the answers and also helped me a bit when I went wrong .There were lots of technical questions related to mostly gate subjects (OS, networks,). I had a lot of networking questions.

❖ Questions from OS were related to scheduling algorithms, memory organisation and how memory is allocated to different parts of the process like global variables, stack,heap and some other basic questions.

● In the managerial round, I was asked a bit of technical questions from networking. We had a detailed discussion on my projects. Most of my projects were focussed around networking, linux as well as cloud computing.

We had detailed discussions regarding implementation of those projects.

● HR round was a very short discussion. it mostly involved questions regarding my preferences of joining place, details regarding CTC etc.

Sources of Preparation

I had prepared a lot on coding websites such as leetcode, code chefs and a few others.
I mostly focussed on the normal and medium difficulty questions and tried my best to do those in one go. It really gets better with practise. While practising try your best to solve problems without looking for the format of basic common functions such as strcmp , sort etc in the language of your preference. I do feel this kind of practise will

be beneficial when you will have to write code without the help of IDE in front of the interviewer (pen and paper coding as it is called).

Courses and Certification

No course and certification as such is necessary for the profile. But I did a course called algorithmic toolbox from coursera. It was helpful in helping me in competitive coding which was a big part of my preparation for technical interviews as well as the coding rounds.

Other Relevant Information

Technical round was the only tough thing I felt. It was quite long and mind draining. I did around three coding problems which I would describe easy to moderate on any coding website and lots and lots of technical questions that were really basic that you could easily answer if you went through your notes of operating systems and computer networks before the interview. you can also go through question bank of interview questions on any two languages that you prefer on any of the websites such as geeksforgeeks

the managerial round was very easy for me. It was a very normal discussion regarding my projects, my education history, my interest in job profile etc etc.

Sector: IT

Name: KARAN GARG (2019H1030515P)
Company: Cisco
Profile: Software Engineer – Network/Embedded/Application Development

Recruitment Procedure

- Resume Shortlisting, Online Test, Technical ,Managerial , HR
- Online Test had 15 questions:
    - 13 MCQ and 2 coding
- MCQ's were easy. 1 Coding question was very basic and other was of moderate difficulty.
- Technical round was mostly related to gate subjects (OS, networks) and my projects.
    - Questions from OS were related to scheduling algorithms, memory organisation and how memory is allocated to different parts of the process like global variables, stack,heap and some other basic questions.
    - One of my projects was a distributed file system. It was developed on linux. So rest of the questions were related to linux commands and how i implemented my project, challenges i faced. I believe this project impressed my interviewer as this was very oriented to the profile being offered.
- In the managerial round several (approx 7) situations were given and I had to explain my actions. some of the questions were:
    - "Suppose I am in a team of three members. We developed a project and supplied it to the customer. Now my rest of the team moved to some other project. and the customer has reported some bugs that need to be fixed urgently. What will i do ? Will I try to do the work solo or not? Will I be okay if I have to spend my weekends and holidays for it?"
    - I developed software for the ATM system. But after delivering it I found out that there were some critical bugs left in the software. What will i do? At the moment only i know about the bugs so i can hide it etc.

- hr round was mainly a 5-10 minute discussion. He asked about myself , if I had any doubts in CTC, what I know about the company and any other questions I have.

Sources of Preparation

geeks for geeks, Interviewbit

Courses and Certification

OS, Networks , DBMS

Other Relevant Information

For the managerial round, it was all about whether you are a team player or not. Technical round was not that tough; it was mostly about the basics of computer science and how much you can explain about your projects.

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Sector: IT
Name: Keshav Saini (2017A3PS0240P)
Company: **Cisco**
Profile: Software Engineer - Cloud Applications Development

Recruitment Procedure

- First Round was an online test with some networking, Mental Ability and software based MCQs along with two coding questions. The Coding questions were easy. However a lot of people had issues with this test as it only allowed programming in C, Python and Java, not C++. (The test was on hacker-rank)
- This was followed by 4 interviews over Cisco's Webex platform.
- The first was a completely technical interview with 4-5 coding questions and lots of questions from OS. The questions were not tough but once again C++ template libraries were not allowed. As the process was online, one had to screen-share our IDE and code the functions in real time.
- The second was based on projects (at least for me). The interviewer asked me to show the files used for my project (it was a java based game). Luckily I had the files with me on the same laptop. He asked some questions from the project and appeared satisfied. Afterwards he asked me some questions like why Cisco, What I wanted to do, Preferred field of interest etc.
- The third round was supposed to be HR + technical but it ended up being almost wholly technical based on my data science based projects. Some conceptual questions about clustering, its implementation, PCA etc. were asked because I used those. The interviewer wanted to ascertain whether I actually knew the core ideas or not. This was my toughest interview in the process.
- The fourth was an HR interview with questions like location preference, M.S. plans etc. I was done for the day after this interview.

Sources of Preparation

- Geeks for geeks for both coding questions and CS concepts (I am a EEE guy, so I needed to do these myself.)
- Hackerank and InterviewBit are also good platforms. If you have done enough practice on them you can go to leetcode or codechef.
- For mental ability, pick any website from the Net. You just need to have a good speed since in most cases people don't miss out due to difficulty but lack of exposure and speed.

Courses and Certification

No courses per se but if you are a EEE person like me you could do courses from coursera for exposure to CS concepts. I had done OOP as an elective and that proved useful when explaining my projects. Courses like ML, Data Mining etc can also prove useful as these are the present day buzz words.

Focus especially on Networking and Operating systems. Even if you are a EEE, you should still do these subjects as the interviewer will expect you to go the extra mile to choose a career different from your Major.

Other Relevant Information

Know about the company and research your profile well. All my interviewers seemed impressed that I knew a lot about the company's operations. Remember that they realize that it is impossible for them to accurately judge your technical knowledge in just one day but they can get an idea about your enthusiasm to join the company based on your knowledge level about the company.

Give a strong introduction (but don't bluff !). Your interviewer will always ask for some sort of introduction to get an idea about your interests and projects. Use this to direct the conversations to topics you are strong in.

Nine times out of ten your interviewers will be very helpful and polite. Don't worry if you get stuck on any problem, you can just ask them for hints. The focus is on your approach , not the final answer .

All the best ☺

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All the best ☺

Sector:IT
Name: Meghna Raj (2019H1120053P)
Company: Cisco
Profile: Network Engineer

Recruitment Procedure

- Online Test, Technical Interview, Managerial Round, HR
- Online test had 2 sections:
  a. The first section consisted of MCQs from CS subjects, 1 or 2 questions from Electronics and some aptitude questions.
  b. The second section had 2 coding questions.
- The test had no timers for sections, therefore, proper time management was required. It is important to note that the coding section had no option for C++ language. So, prepare yourself to code in JAVA, C, or Python.
- Technical Interview:
  a. Tell me something about yourself.
  b. Some discussion based on previous work experience.
  c. Explain about the project that is mentioned in your resume. Follow up questions on what you answer. The interviewer may ask you to handle some scenarios based on your project design.
  d. Linked list and queue based coding questions.
  e. A few CN questions.
- Managerial Round:
  a. The interviewer asked to explain the OSI model.
  b. He asked about the products that Cisco offers.
  c. Some HR questions were asked.
- HR round: As the interview process had continued well into the night, this round was only of 5 minutes for me. The HR took some details, location preference and asked if I knew about the package being offered.

Sources of Preparation

- GeeksforGeeks Must Do Interview Questions
- GATE Notes for CS subjects.

Courses and Certification

- Certification in Java
- Operating Systems, Cloud Computing, DBMS

Other Relevant Information

- Practice a lot of coding questions and make sure to solve them within a timeframe.
- Explain your logic for the coding question asked in the interview to the interviewer. Keep talking about your approach as you code.
- Even if you get stuck in between, let the interviewer know, they will provide you with hints.

- Don't get nervous if you do not know an answer. Let the interviewer know that you cannot recall, but do not bluff.
- Have in-depth knowledge about the projects that you mention in your resume.
- Prepare HR questions well and always show that you are interested in joining the company.

Sector: IT

Name: Naveen Babu (2019H1120055P)
Company: Cisco Systems

Profile: Software Engineer (Cloud Application Development)

Recruitment Procedure

- Online Test, Technical Interview, Manager Interview, HR Interview
- Test had quant aptitude and technical MCQs based on computer fundamentals, computer networks and operating systems. It also had 3 programming questions on game theory, sorting and string manipulation respectively. The available languages were only C, Java and Python.
- The MCQs were easy. Two programming questions were easy and one was medium.
- Technical Interview:
    - Basic data structures and use them programmatically
    - A variation of largest substring problem using Dynamic programming
    - Basic SQL queries
    - Computer networks fundamentals and some network security questions like SSL, TLS, etc
- Manager Interview:
    - Basic discussion on projects
    - Behavioural questions
    - Concepts of multithreading and how it is connected with threads in OS
    - Caching methods
    - Docker and Kubernetes
    - Discussion about CICD
- HR Interview:
    - Strength and weakness
    - Discussion about interests and why I had chosen that specific role in the company

Sources of Preparation

- Computer core subjects from geeksforgeeks
- Coding questions from leetcode, interviewbit, hackerrank, geekforgeeks

Courses and Certification

- All Computer core subjects (GATE subjects) like Data Structures and Algorithms, Computer Networks, Operating Systems and Computer Organisation and Architecture.
- Be clear with OOPS concepts and some real world examples to support it.

Other Relevant Information

- Be prepared for every minute details about course projects and why a specific technology was chosen over the others
- You may be asked to write a program on paper and show it on camera, so keep practicing without code autocomplete
- Be clear on the role you are applying in the company and prepare accordingly.

Sector: IT

Name: Sunil Kumar Jha (2019H1030513P)
Company: Cisco Systems India Private Limited
Profile: Cloud development engineer

Recruitment Procedure
There were 5 rounds in total including coding/online round.

1. Online Test: It had 15 MCQs related to computer science basics and some questions on programming concepts. There were two coding questions as well. One question was medium and another one was easy.
2. Technical round 1: Questions were mostly from what I had mentioned in resume. Make sure you go through your resume very well. And 2, 3 coding questions as well.
3. Technical round 2: In this round I was asked from some subject which I had mentioned in my resume and questions from projects I had mentioned. Similar to tech round 1.
4. Managerial round: I was asked some situational questions and some standard questions like why we should hire you, what are your expectations from cisco etc. And also some question from operating system on concurrency and synchronization.
5. HR round: It was only for basic discussions like which place in India I would like to work, if given chance which tech I would like to work on and so on.

Sources of Preparation

1. Geeks for Geeks
2. Leetcode
3. InterviewBit

Other Relevant Information
If you have projects/experience related to the company, you are applying to. It will be certainly helpful. I had done some 3 4 networking projects on which my interview was mostly conducted.

Sector: IT
Name: Komal Vasudeva (2017A7PS0103P)
Company: Cult.Fit (previously Cure.Fit)

Profile: Software Engineer

Recruitment Procedure

- Online test, Technical interviews (2 rounds), 1 HR round
- Online coding round had 2 questions :

1. https://www.geeksforgeeks.org/weighted-job-scheduling/
2. Don't remember the exact question, but it was related to graph and bfs/dfs .
   I solved 1 question and was called for the next round.

- Technical interview round 1:
  I was asked 2 coding questions .
  1. https://www.geeksforgeeks.org/zigzag-tree-traversal/
  2. The question was to tell whether a string is a palindrome or not, if we are allowed to change at max 1 character.
     For example, " abac" will return true, but "abcde" will return false.
  - Some discussion on resume and projects.

- Technical interview round 2 :
  - https://www.geeksforgeeks.org/sum-of-maximum-elements-of-all-possible-sub-arrays-of-an-array/
    I solved it in O(N2) . One important thing is to keep thinking out loud and to keep discussing your approach with the interviewer. That worked well for me.
- Managerial Round
  This was an unfiltered, personality-type check. I would say that Cult.Fit's hiring is fit-based. Got questions like 'Why Cult.Fit? ', 'Why not higher studies? ' . We discussed the business model of Cult.Fit and also about my interest , Cricket. Legit had discussions about Kohli Vs Smith, and why Rohit would be a better captain in Limited Overs' Internationals (despite me being a Kohli fan). It was a personality test in the true sense, and not the nominal HR round. Lasted for around 30 minutes.

Sources of Preparation

Leetcode, InterviewBit, GeeksForGeeks, Hackerrank (GeeksForGeeks at the beginner level, InterviewBit for dedicated preparation, LeetCode as a Hobby, and Hackerrank to give final touches to the preparation)

Courses and Certification

DSA is the most important. Apart from that, knowledge of OOP, OS and DBMS is a plus , though I wasn't asked any questions from these topics.

Other Relevant Information

Be presentable, actively listen, and be street-smart. Develop the ability to think on your feet, and you're good to go. If you're reading this quite some months before placements, please understand the CS subjects well.That gives you an advantage over most others, who'd just know coding. Also, be thorough with your resume, and think of real-life applications/examples about your projects/yourself.

Sector: IT

Name: Harshavardhana Shrirup (2016B3A70501P)
Company: cure.fit

Profile: Software Engineer

Recruitment Procedure

- The process consisted of 1 online test, 2 technical interviews and 1 HR interview.

Online Test

- 2 coding questions, to be solved in 60 minutes.
    1. You are given an N x M matrix, in which each cell has a height associated with it. You can move to cells adjacent to the current cell, but only if the next cell's height is less than or equal to the current cell's. Find the number of cells that, if chosen as the starting position, allow you to reach a cell along one of the edges of the matrix. Expected time complexity was O(N*M).
    2. The weighted job scheduling problem. Expected time complexity was O(N*Log(N)).

Technical Interviews

- Both the interviews followed this format:
    - Exchange of introductions, brief discussion of my CV
    - Solving 1-2 algorithmic problems and writing code for them
    - Ask the interviewer some questions
- Each interview lasted 40-50 minutes

First Interview

- Find the time needed to pass some information to all the nodes of the tree. Every node that has the information can pass it to one of its children in one second. Several nodes can pass the information simultaneously. Initially, only the root has the information.
    - I was asked to solve this for a rooted binary tree first and write the code for it. Then I was asked to write it for a general rooted tree.

Second Interview

- You are given an array of numbers. You need to sum the maximums of all the subarrays of the array as well as the minimums, and return the sum of these two values. On explaining my solution, I was told to only write the code for the maximums.
- Choose one edge of a tree such that on removing it the product of the number of nodes on both the remaining parts is maximal. Barely 1-2 minutes were spent on this problem and I wasn't asked to write the code for it (maybe I would have if I had taken less time for the first problem).

HR Interview

- Lasted for 25-30 minutes
- Some of the questions asked were:
  - Why do you want to join cure.fit?
  - What are your areas of interest in CS/programming?
  - What work did you do in internship X?
  - What are your views on work-life balance?
  - If job A pays 2X but has mediocre work and job B pays X but has much better work, which one would you choose?
  - What are your strengths and weaknesses?

Sources of Preparation

- I used the following sources to prepare for placements, but some of them were not needed for cure.fit.
- Useful For cure.fit:
  - Codeforces
  - InterviewBit
  - GeeksforGeeks's section on C++
  - DSA (course)
- Not Useful For cure.fit:
  - CS courses, except DSA
  - GeeksforGeeks' sections on OOP, DBMS and OS.

Courses and Certification

- DSA

Other Relevant Information

- You should try to be as quick as possible when solving the problems and coding them up (but explain your approaches properly). Sometimes the interviewer has additional questions in mind, but will only ask them if you can answer the earlier questions before time's up.
- A lot of people were eliminated after the HR round. It's possible that this was partly or even wholly because of their performance in the technical rounds, but be prepared for the HR round as well to be on the safe side.

Sector: IT

Name: Ankita Chakravarty (2016B5A70701P)

Company: Deutsche Bank

Profile: Graduate Analyst

Recruitment Procedure

1) Online coding test
2) Pre-placement talk
3) Interview:
    a) Technical round 1: Asked about projects done. Questions based on trees, heaps, and few database questions. Type the pseudo-code in the chatbox and explain it to the interviewer. (45-60 minutes)
    b) Technical round 2: More questions on trees and databases. A few string based questions. For every question, it was expected to give the most optimal answer, and only then he would move forward. (45-60 minutes)
    c) Values round: Resume based questions. Several situations were presented and how I would handle them. (30 minutes)
    d) HR round: Various project related questions but nothing technical (covered in previous rounds), whether I had any family members working in DBOI or in the public sector, did I have a valid passport, future plans, etc. (30 minutes)

Sources of Preparation

GeeksforGeeks

Courses and Certification

Most questions were on DS & Algo and some were on DBMS.

Other Relevant Information

Present yourself confidently. Don't panic if you don't know the answer to some question, just think aloud your approach and maybe the interviewer will be generous enough to tell you whether it is right or not and then move forward! Have a clear understanding of the basics.

Sector: IT

Name: Eashan Sapre (2017A3PS1158P)
Company: **Innominds**

Profile: SDE- Digital Transformation

Recruitment Procedure

- Online Test – Aptitude, DSA, OOPs, OS
- This was followed by two technical rounds. Each had medium to easy level coding questions, SQL, OOP related questions. Second round also involved two puzzles.
- Last round was taken by the manager- Resume walk through. Questions are related to past projects and internships.

Sources of Preparation

InterviewBit, GFG, PU study material for aptitude preparation

Courses and Certification

None required.

Other Relevant Information

Be thorough with OOP fundamentals and SQL.

Sector: IT

Name: Aswin B (2019H1030022P)

Company: Intel India

Profile: Software Engineer

Recruitment Procedure

1. Round 1: Resume shortlisting (based on CG (above 7) and related projects , internship experience is a plus).

2. Round 2 (skype call) : Based on projects and in depth fundamental questions related to projects.

3. Round 3 (skype call) : Algo, DS and DBMS (PL/SQL)
    a. To explain the logic to solve the mentioned problem
    b. Concepts of stored procedures, joins, triggers etc.,
    c. OOPS concepts

4. Round 4 (skype call): In the middle of internship ----- due to lack of vacancies in the pre-allotted business unit
    a. In depth OOPS and C++ questions
    b. A bit of hardware knowledge was expected for the team that interviewed me, as the team was dealing with operating systems.
    c. Having keen test oriented development knowledge is a plus.

Sources of Preparation

- Geeks for Geeks
  - Algorithms and Datastructures
  - Operating systems

- Tutorials point
  - DBMS and PL/SQL
  - C++ and OOPS

Other Relevant Information

Even though BITS postgraduates usually get dual offers (Intern + full time), the position is not yet confirmed till we get the offer letter in hand. Teams which have vacancies will contact you first as we have a dual offer clause, But those teams will conduct multiple interviews based on their team's expectations. So, be prepared for interviews in the middle of internship. Neither the current team's manager or the HR will guide you or inform you regarding the status of your full time offer. If teams contact you in the middle of internship, it means that there is no vacancy in your current team and you have to clear contacting team's interview to get our full time offer.

Sector: IT

Name: K. Sri Krishna Manoj(2019H1030020P)
Company: Intel

Profile: Software Engineer

Recruitment Procedure:

- Selection Process: Resume Shortlisting, Technical rounds
- Technical round questions:
    - Detailed questions on resume, including projects.
    - Doubly linked list questions
    - What are the real-world applications of DFS and BFS?
    - Given a set of cities and distance between them, how will you find the shortest paths among all pairs of cities?
    - What are triggers in SQL? Give an example of how to use them.
    - What are Joins in DBMS? Give an example of how to use them.
    - What is PL/SQL?
    - What are B trees?
    - Questions on Job-shop scheduling and Reinforcement learning(related to my project and interviewer's interest area).
    - Any plans for future studies?
    - Are you looking for a full-time research role?

- 2nd technical round had a mix of technical and managerial questions

Sources of Preparation

- Geeks for Geeks
- Hackerrank
- Textbooks for OS, CN, Algorithms and DS

Courses and Certification

Design & Analysis of Algorithms, Data Structures, Computer Networks, Operating Systems, DBMS, Deep Learning

Sector: IT

Name: Subhashis Dhar (2019H1030023P)
Company: Intel India Technology Pvt. Ltd

Profile: Software Engineer
Recruitment Procedure

- Resume Shortlisting (CG shortlisting)
- Telephonic Interview Round 1
    - OS related questions – Mutex, dependency tree, tree traversal questions
    - Project related questions – details, scale, limitations of the project, future scope
- Video Interview on Skype Round 2 – asked SQL related questions as my previous experience was on that technology.
    - SQL and database questions
        1. Triggers
        2. DML/DDL/DCL
        3. Store procs
        4. Movement of large amount of data
- As the BU which hired us did not have vacancies for full time employees at that moment, our resumes were sent to a common pool from where other teams who had full time offers contacted us for interviews.

- Skype Interview Round 3 (BU specific)
    - Tell us about yourself
    - Follow up questions – internship experience
    - Embedded software related questions like timers, interrupts as I had SES as a subject
    - Project related – how I managed dependencies, how change requests were managed, git, build tools used.
    - Asked to identify the output or find the problem with the code type questions. Concepts like volatile and buffer overflow were checked.
    - Interviewer was from US and very helpful in pointing to the correct path if I was confused.

Sources of Preparation

- OS, DBMS concepts and MCQs on various online platforms
- Coding questions on DSA and Algorithms from online platforms like geekforgeeks, hackerrank etc

Courses and Certification

- Advanced OS
- Advanced Computer Architecture
- Software for Embedded Systems

These subjects were helpful in getting the concepts required for answering the questions asked in the interviews. Also, prior exposure and work done on Spring Boot and tools like Git, Maven etc helped.

Other Relevant Information

Being a hardware centric company, Intel focuses on core CS concepts and does not have much scope in sectors like AI/ML related work or research-based work for full time employees. Work culture is great and gives proper work life balance.

Its one of the few companies which values master's degree and is reflected in the CTC and grade level within the organization.

BITS Pilani
Pilani Campus

Sector: **IT/Finance**

Name: Abhinava Arasada (2017A7PS0028P)

Company: JP Morgan Chase and Co

Profile: Analyst - Quantitative Research

Recruitment Procedure

- Resume Shortlisting, Online Test, Interviews
- Test had 2 sections:
    a. Quant - 30 MCQs in 35 minutes (with negative marking). Consisted of three sections of 10 questions each. Puzzles and probability, math and coding. No need to separately prepare for the coding and probability sections. For the math section you can brush up linear algebra and complex numbers.
    b. Coding - 2 coding questions in 40 minutes. Expect one question from dp, and one from graphs/trees/linked lists etc. Difficulty around leetcode medium.

- It is important to keep track of time in the online test since there's not much of it, especially in the first section. Try to attempt those MCQs first which seem familiar/easy.

- Five rounds of interviews (3 technical + 1 technical/behavioural + 1 hr):
    a. Was asked coding questions (dp, sliding window etc), cs fundamentals (garbage collection, heap memory vs stack memory etc), oop concepts in cpp, puzzles (a whole round was just puzzles) as well as some math (matrix algebra, integration, leibniz rule etc).

b. They care more about the thought process and logic rather than the answer. Have a structured approach to solve the problem and don't guess or make assumptions. Ask for clarifying information if necessary. Try to voice whatever you're thinking of to the interviewer.

Sources of Preparation

For coding, try leetcode/interviewbit. For probability, use "Fifty challenging problems in probability". Use khan academy for linear algebra, calculus and gfg/college courses for cs fundamentals. College courses for data science related stuff.

Courses and Certification

Courses in machine learning, and statistics would definitely help. Try doing such courses either on your own or in college.

Other Relevant Information

Researching about the role offered and the sort of work done in advance would help show your interest.

Sector: IT

Name: Jasman Singh Kalsi (2017A4PS0561P)
Company: Lentra AI

Profile: Software Developer

Recruitment Procedure

- Online Test, Interview

- Test had various sections which covered subjects like DSA, DBMS, OOP, OS and Networking. Skipping a section and going back to the next section was not allowed until you solve the given section completely. Last section had 2 easy level coding questions. However, it was important to manage your time well.

- Interview: Technical + Manager Round: Selected candidates were interviewed by a panel of 2 people where we were asked both technical and manager questions. Technical questions were mainly related to the projects in the resume.

- Questions: Questions were mainly asked questions from the topics like Generics, multithreading, design patterns and other concepts in OOP. They can ask you to code in the interview as well. The interview round lasted for about 1 hour.

Sources of Preparation

Competitive coding from online platforms like Leetcode and InterviewBit. Did courses like OOP and OS from the college which helped me a lot. Other than this, Geeks for Geeks' "Most asked interview questions" are a must do.

Courses and Certification

OOP, OS and DSA.

Other Relevant Information

Fluency in the above subjects and being able to answer immediately is what they expect from the interviewee. Apart from this, being confident always helps.

Sector: IT

Name: Srirama Prakhya
Company: Microsoft

Profile: SDE 1 (L59)
Recruitment Procedure

1. Online coding round: 3 questions, DSA
2. Written coding round: Coding a DSA question on paper
3. Coding Interview 1: DSA
4. Coding Interview 2: DSA
5. HR Interview: Checking for culture fit, general questions etc

Sources of Preparation

1. Interview Bit
2. Codechef
3. Codeforces
4. Leetcode
5. GFG

Courses and Certification

1. DSA
2. OOPS
3. DBMS

Other Relevant Information
Competitive programming is the best for coding interviews.

Sector: IT

Name: Hariharan S (2017A7PS0134P)
Company: **Myntra**

Profile: Software Engineer

Recruitment Procedure

- The first round was an online round (Hackerrank) that had around 5 MCQs and 6 coding questions. Understanding the questions and coding standard algorithms/DS quickly will get you through this round.
- The interview process had 4 rounds. Two were technical (DS&A), one was an interview with the Hiring Manager, and the last one was an interview with HR.
- The first technical round had two questions. Q1 was the standard problem of number of meeting rooms required (https://www.geeksforgeeks.org/minimum-halls-required-for-class-scheduling/) and Q2 was a simple BFS problem with DP (given a tree-like structure, find the minimum number of nodes you have to place a bomb at to blow up the whole structure, where a bomb blows up a node and all its neighbouring nodes).
- The second technical round had one question, installing a package with dependencies (http://geeksforgeeks.org/find-the-ordering-of-tasks-from-given-dependencies/).
- The hiring manager round was a general discussion about my projects and other resume points, and where I could see their applications. And later on into the interview it seemed more like a check for culture fit.
- The HR round was a discussion that went on for about an hour, where I was presented with different managerial scenarios and asked to come up with solutions to different issues.

Sources of Preparation

I practiced questions mostly from Leetcode for a few months prior to the start of placements, and the weeks leading up to placements I prepared many of the standard questions from GeeksforGeeks, for both programming and CS fundamentals.

Courses and Certification

DSA is a must-know for placements. DSA course at BITS is good, but I'd recommend MIT's 6.006 course for a more complete understanding.

Other Relevant Information

The interview questions are usually simple in the sense that you could solve them much faster when you're not under pressure. I would suggest practising with mock interviews to get a feel for the interview experience.

Sector: IT

Name: Parth Misra (2016B5A70560P)
Company: Myntra
Profile: Software Engineer

Recruitment Procedure

- First round was a 90 min online test which had a few MCQ questions (basically 1-2 questions from all the relevant topics like data structures, networking, operating systems, etc). There were 6 coding questions. Out of these 2-3 questions were easy, and the rest were of medium difficulty. One of the most important things for the online test is to try and solve the easier ones first. That not only gives you a confidence boost but also helps in solving the other problems.
- The next round was a virtual interview which was basically meant to test the coding skills of the candidate. I was asked 2-3 questions out of which I remember the following-
    - Given an array consisting of M(males) and F(females) return the length of the maximum subarray such that the number of males is equal to the number of females.
    - Given an array of 0s and 1s where 1 means occupied and 0 means vacant, find the position where the next 1 needs to be placed so that it's distance from the nearest 1(on both sides left and right) is maximum. For example if the array is 0,1,0,1,0,0,0,1 then the new 1 should be placed at index 5, i.e. 0,1,0,1,0,1,0,1.
- The next round was focussed mainly on data structures. Two questions were asked out of which one was easy and one was difficult-
    - Given a sorted array, rearrange the elements such that for any index i, arr[i-1]>=arr[i]<=arr[i+1] OR arr[i-1]<=arr[i]>=arr[i+1] is satisfied. That is the ordering of elements follows a zig-zag order.
    - A 2-D matrix A representing a binary tree was given such that $\mathbf{A_{ij}}$=1 means i is an ancestor of j in the binary tree and $\mathbf{A_{ij}}$=0 means i is not an ancestor of j in the binary tree. Using this matrix I was asked to create a balanced binary tree.
- The next round of interview was taken by a Hiring Manager. It started with a comprehensive discussion on my internship project with a lot of follow up questions on the same. It was then followed by a discussion on how the collaborative feature on google docs is implemented. It is very important to be very well versed with the projects and work experiences that you are putting up in your resume.

- The next round was the HR round. This was the last round where the interviewer asked some questions on my projects as well as some other things from the resume.

Sources of Preparation

- Interview Bit
- Geeks for Geeks
- LeetCode

Courses and Certification

- DSA
- OS
- Networks
- OOP
- DBMS.

Other Relevant Information

NA

Sector: IT

Name: Prince Yadav (2019H1030019P)
Company: NetApp

Profile: Member of Technical Staff

Recruitment Procedure

- Online Test, Technical round 1, Technical round 2, HR.

- **Online Test**: Test had two sections . First section consists of 3 coding questions. First question was easy and was based on mathematics (P & C). Second question was from sting topic and also of easy difficulty level. Third question was based on DP and of moderate difficulty level.
- Second section consisted of MCQ questions from topics like Computer Networks, Operating System, Computer Organizations, OOPS concepts, Unix and General Aptitude Questions. Questions were mostly easy and straightforward. Gates notes are sufficient to answer all the questions from this section.

- **Technical round 1**: This round started with a question like Tell me about yourself specifying the projects and internships I have done .After that interviewer asked various questions related to my project. As my project was on File System so he asked questions like how read and write functional calls internally work. Later He asked me a programming question which was based on sorting a large set of numbers.

- **Technical round 2**: This round started with questions on data structure and algorithm. I was asked to write the code for Rock Paper Scissor game. second question was to write a function which will generate non repetitive random number within a given range using the c language rand function

- **HR interview** . General question about my hobby. What subject do I like most? It was mostly informal discussion.

Source of Preparation
GeeksforGeeks (Must do coding questions), InterviewBit, Leetcode

Courses and Certification :
None but NetApp is a storage company so if you have basic knowledge about file systems it will help you.

Other Relevant Information

Prepare your project thoroughly. Prepare The subject like operating system , Computer Network Unix File System well .It will help you both in online test and the interview

Sector: IT

Name: Aryan Mehra (2017A7PS0077P)
Company: Oracle

Profile: Software Engineer (App Services)

Recruitment Procedure

Online Test, followed by 4 rounds of interviews. A lot of focus is on DBMS including normal forms and SQL queries. The DSA aspect is not very tough, but was asked in 2 out of 3 technical rounds still.

Sources of Preparation

InterviewBit, Leetcode, GeeksforGeeks, Previous year lab sheets from DBMS, Google search some basic OS, DBMS, DSA concepts.

Courses and Certification

DBMS, DSA: Compulsory (as in concept wise required)

DAA, OS, OOP: Optional/Secondary

Other Relevant Information

Interview process was online, carried out within 5 to 6 hours. Process was smooth.

Sector: IT

Name: Nishant Mahajan (2017A7PS0112P)
Company: Oracle
Profile: Applications Engineer - Applications Development Group

Recruitment Procedure

- Online test, Video session, 2 technical interviews, 1 technical + general interview, 1 HR interview
- Online test had multiple sections like:
    - Logical puzzles
    - Programming (we had to fill-in flowcharts)
    - CS theory (OS, databases)
    - Language and Grammar (english)
- Online test was mainly about being quick. Each section was divided into multiple sub-sections and you often had less than a minute per question. You weren't allowed to change answers. Skipping questions to review them later was allowed though. The questions themselves weren't difficult. But the time-limits really required a fully active mind.
- Note that the online test didn't feature ANY coding questions.
- Technical interviews focussed exclusively on coding questions. No theory questions were asked. The questions were pretty easy and the interviewers were friendly. Most of the questions involved dictionaries or sets. One was on recursion.
- HR round didn't involve any technical questions and was about getting to know my preferences.

Sources of Preparation

I mainly practiced questions on InterviewBit. I began 2 months before placements and set a target of earning a minimum of 500 points everyday. I learnt graph algorithms from Wikipedia and did a few questions on them from GeekForGeek's "must do coding questions" list.

For theory, I used my course slides and YouTube videos.

Courses and Certification

I don't think that courses and certifications helped me in this case. While they may have helped, this didn't come up in interviews at all.

Other Relevant Information

I would recommend giving the interviews while in a relaxed state and come across as a warm person (instead of stiff/professional). It really makes the interview process go smoother.

For coding questions in interviews, I used Python. While I was familiar with C++, coding in Python allowed me to iterate on my ideas much quicker which is something that definitely helps in an interview.

Sector: IT

Name: Priyanka Verma (2016B3A70492P)
Company: **Oracle**
Profile: Server Technology
Recruitment Procedure

- Online Test : around 2.5 hours. All MCQs, no negative marking. NO coding questions
  - Revise sorting algos, avl trees, bst.
  - dbms, debug C programs , choose correct functions syntax etc types questions
  - Given flowcharts, you have to interpret what the algorithms does and ans 3-4 related questions (spend some time understanding the flowcharts so that next set of ques can be solved quickly and accurately)
  - English and mental ability based questions
- Interviews : 3 technical rounds and 1 HR round
- DSA : 2/3 coding questions. e.g max consecutive product in an array.
- OOP concepts were asked. Was also given a task and had to write a program for it using classes.
- Computer Networks (conceptual questions) e.g. what is a subnet mask? How will you test if a computer is connected with another one? You have to send a message to your friend whose computer is connected to the same local network as yours, but you are unable to do so. What could be the possible reasons?
- Cloud computing related questions (basic ones) e.g. if you have to design a cloud based application, what factors will you take into consideration?
- OS (conceptual questions): e.g. what happens when an application keeps getting more traffic than it can handle?
- Other technical questions: How does Google Search work? Garbage collection in Java v/s C++? Differences between java, C++, Python and C.
- The first question HR asked was: "Did you attend the ppt? What all did you like in it?" Other generic questions like: How will you use Economics knowledge in this technical role? My future goals, do you like to work alone or in a team?

Sources of Preparation :

InterviewBit, Leetcode, Geeks for Geeks, Sanchit Gate lectures on YT

Other Relevant Information

- Do participate in some contests to build test taking temperament and speed.
- Have an idea about the ongoing projects of the company.

Sector: IT

Name: Rohit Rajhans (2017A7PS0105P)
Company: **Oracle**
Profile: Applications Engineer - Applications Development Group

Recruitment Procedure

- Online Test, 2 Technical Rounds, 1 Managerial Round, 1 HR Round
- The Online Round was divided into multiple sections comprising of MCQs. Verbal reasoning, mental ability and coding knowledge were tested in these sections. Each section had a separate timer. Coding MCQs involved finding the error in code, output of the program or tested basic subject understanding.
- The first interview round was a technical round and I was asked questions on Computer Architecture (since I mentioned it as one of my favourite subjects) and DSA. Questions:
    - Write assembly language code for adding and multiplying 2 16-bit numbers
    - Wildcard Pattern Matching - Dynamic Programming question
- The second round of interview was also a technical round. I was asked a couple of DSA questions:
    - Generate all combinations of balanced parentheses for 'n' pair of braces
    - Given some data about students and their marks, return the top n scorers in mentioned subjects
- The third round was a managerial round and it involved behavioural and future-related questions like 'Where do you see yourself in 5 years?'.
- The final round was the HR round

Sources of Preparation

GeeksForGeeks, Interviewbit, Leetcode

Courses and Certification

DSA, OOP, DBS, OS are some of the relevant courses for IT interviews

Other Relevant Information

I have found clearing coding tests to be the biggest hurdle in placements/ internship season. Developing a habit of writing code on paper/ coding a solution completely rather than just looking at the solution helps a lot to build the right temperament for these tests. For interviews, be confident and explain your thought process at each step. In most cases, the interviewer is interested in the process involved in arriving at the solution rather than the perfect solution. Also, some prior company research and general discussions with the interviewer does help to create a positive impression.

Sector: IT

Name: Rudraraju Sacin Varma (2019H1030014P)
Company: Oracle
Profile: Applications engineer

Recruitment Procedure

- There were 5 rounds in an elimination round format, 1 online aptitude test (quants, vocab, algo) + 2 tech interviews + 1 managerial round + 1 HR round.
- The first round had about 4 sections each divided into 2-3 subsections and each sub-section had a time limit.

- In the second round, I was asked to write syntactically and semantically correct code to solve the question asked by the interviewer. I don't remember the questions but one was based on sorting and the other was based on hashmaps.

- In the third round, I was asked a few questions on computer networks, all the technologies I would use to deploy a webpage, and then was asked to write code to solve 2 coding questions. One was based on largest subsequence matching with a wild card character and the other was matrix rotation problem. Although I was asked to write code, I was asked to stop midway for both the questions and simply tell the approach and the time complexity.

- In the next round, I was asked to write a code to check if in a matrix of 0s and 1s there exists an element which has all 1s in the diagonals, row and column passing thought it. This interview was relatively short.

- The last round was the shortest of all the rounds. The discussion revolved around any contests that I participated in, and the usefulness of the projects I developed. It finally ended with my job location preferences.

Sources of Preparation

- Data structures and algorithms made easy by Narasimha karumanchi
- Interviewbit
- Geeksforgeeks – must do coding questions

Courses and Certification

- Data structures and algorithms
- Computer networks

Other Relevant Information

Make sure to think out loud while solving a problem during the interview, it'll help the interviewer gauge your way of thinking and approach better.

Sector: IT

Name: Sanchita Badkas (2019H1030520P)
Company: Oracle
Profile: Applications Developer

Recruitment Procedure

- Online Test :
  - Consisted of objective questions on
    - Basic aptitude
    - Grammar
    - Data structures
    - Databases
    - Computer networks
  - The test was pretty easy. One just needs to be attentive and focused while solving as more than one options sound correct. Preparation wise not much is required.
- Technical Round 1:
  - The focus is on how you approach a problem rather than whether you are able to solve it or not.
  - Questions like get different permutations of a string are asked.
  - 2-4 questions were asked and different approaches to solve them.
- Technical Round 2:
  - This round focused on testing skills as a programmer. Along with competitive programming questions, we were supposed to write proper code displaying concepts from object oriented programming.
- Managerial Round:
  - Tell me about yourself, what your strengths, etc questions asked
- HR Round

Sources of Preparation:
Leetcode, geeksforgeeks

Courses and Certification
None

Other Relevant Information
Focus on learning how to solve problems in competitive programming. The approaches taken are more important than just increasing count of problems solved.

Sector: IT

Name: Sanchita Badkas (2019H1030520P)
Company: **Oracle**

Profile: Applications Developer

Recruitment Procedure

- Online Test :
  - Consisted of objective questions on
    - Basic aptitude
    - Grammar
    - Data structures
    - Databases
    - Computer networks
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- Managerial Round:
  - Tell me about yourself, what your strengths, etc questions asked
- HR Round

Sources of Preparation:
Leetcode, geeksforgeeks

Courses and Certification
Other Relevant Information

Focus on learning how to solve problems in competitive programming. The approaches taken are more important than just increasing count of problems solved.

Sector: IT

Name: Shagufta Gurmukhdas (2019H1030012P)
Company: Oracle
Profile: Member Technical Staff – Server Technology

Recruitment Procedure

- There was an online test initially. There were a lot of questions divided into sections based on the subject, and each section had subsections based on the type of questions. It comprised of everything, verbal, quant, technical. Only MCQs.
- There were 4 rounds of interviews for the shortlisted students. Didn't seem like they did any significant shortlisting, around 80 to 90 students appeared for the interview.
- Round 1 and round 2 both had a coding question to be completed on coderpad.io. Leetcode medium level.
- Round 1, apart from the coding question which was the major part of the interview, also had a lot of questions on OOP.
- Round 2, apart from the coding question which comprised half of the interview, also had questions on OOP and DBMS. I was also asked to design a parking management system in a mall along with the necessary classes and relations between them, relevant attributes.
- Round 3 was by a senior technical person, it didn't involve coding, but only technical questions on OOP, Python, random questions like why data scientists prefer python and do you think it should ideally be the case, asked about my work experience with GCP, MongoDB etc (was in my resume), asked to explain two projects on my resume – one involving siamese neural networks and one involving LSTMs and related questions about architecture. A few more questions on 'what do you think about xyz'. He also told about the server tech team and how maximum students here will be allotted to OCI, how exciting it is to be a part of it etc.
- Round 4 was an HR interview with an extremely casual and fun conversation, mostly about my time as a speaker at conferences, the countries I travelled to, also a bit about PoRs. She asked about my experience in PU, and contacting companies. Lastly took the location preference.

Sources of Preparation

- GeeksForGeeks
- Leetcode
- CodingBlocks CP course (not at all necessary, other sources are more enough, but I started with this, when I started my prep in the previous semester.)

Courses and Certification

Nothing relevant to Oracle. Some random Coursera courses on Deep learning, and the deep learning elective in campus.

Sector: IT
Name: Soumak Roy (2019H1030024P)

Company: Oracle
Profile: Member Technical Staff – Server Technology

Recruitment Procedure

Preliminary online test, followed by 4 rounds of online interview. 2 of them were purely technical, the 3rd round was a mix of technical and managerial questions, and the final one was the HR round.

- **Online Test** - The online test did not have any coding problems, only MCQs without negative marking. It had several sections with separate time limits, based on a variety of topics ranging from English grammar & vocabulary, quantitative aptitude to more technical subjects like data structures, OOP, DBMS and networks. We also had a section of code-debugging questions. The questions themselves were fairly easy, but speed was of the essence in this round.
- **Technical Rounds** - The first two technical rounds were predominantly based on coding. I was given problems to write codes for, problems which were purely based on data structures, algorithms (having the sorting techniques clear in one's mind, or better developing a habit of writing sorting functions is very important) and puzzles. One simple coding question I was asked was how to implement two stacks using one array. What the interviewers look for here are analytical thinking and problem-solving skills. One doesn't necessarily need to execute or run the codes in order to qualify. You need to convince the interviewer that you can think along the correct lines. In between, as I wrote the codes, I was asked technical questions on a fair few CS subjects. Conceptual questions on data structures, algorithms, DBMS, OS, networks and OOP were asked. What I understood was that the interviewers keep track of which subjects I have already been tested in, and they ask questions on the ones are remaining. One thing to note is, they allow you to choose which language you want to code in.
- **Technical+Managerial Round** – This was more focused on my projects, which I was asked to explain in detail. In case someone has been previously employed, they could be asked about the specifics of their previous work, as I was. One might be given hypothetical workplace scenarios, which one would have to provide solutions for.
- **HR Round** – Nothing technical. Introductions, details about under-graduation and post-graduation were asked, along with the usual questions like "Why should we employ you?" and "Why do you want to join our company?". If one is confident and logical in this, one should be through. This was naturally the shortest round, spanning around 15 minutes, while the others were over half an hour long.

Sources of Preparation –
It is a great habit to start coding early. I was quite weak at coding before joining BITS for M.E., but even the assignments for various courses here instilled a habit of coding in me. As far as materials go, the conceptual questions can be tackled if one is thorough with their GATE notes. Other than that, GeeksforGeeks was a big help, as was Leetcode for coding. The semester break after Sem 2 is crucial, but it is better to start earlier.

Courses and Certification

Thorough conceptual knowledge of DS, Algo, OOP, DBMS, Networks, OS should be enough.

Other Relevant Information
Practise to increase your speed for the online tests. Take quizzes wherever you find them. The interviewers are generally considerate, friendly and outgoing. As long as one explains their line of thought clearly, they listen. In all the interview rounds, but especially in the HR round, confidence is key. They will not judge you on a statement you make, but on how well you can back your statements up with proper logical justifications.

Sector: IT
Name: Vaishnavi Kotturu (2017A7PS0088P)
Company: Oracle
Profile: Member Technical Staff - Server Technology

Recruitment Procedure

• Online Test, 3 Technical Interviews, 1 HR Round
• The online test had 4 sections:

1. Aptitude
2. DSA concepts
3. Questions on OS, DBMS, OOP
4. English

There was a timer for each section and no negative marking.

• Technical Interviews:

5. First round: The interviewer asked a few questions on OS (virtual memory), OOP (4 basic principles of OOP) and Computer Networks (TCP, UDP, Routers). 2-3 short puzzles (ex: apples and oranges) were also asked. I was also given one coding question and was just asked to code it without any optimizations. He wanted the code to run in one attempt.
6. Second round: Initially I was asked questions on DSA (trees, graphs, hash maps), DBMS (SQL queries, normal forms, need for normalization), OOP and Aptitude. Then 1 coding question was given and the solution had to be optimized with respect to time and space both.
7. Third Round: 1 Puzzle (egg dropping puzzle) and questions based on OOP (ex: why is overriding of constructors not allowed) were asked. Rest of the interview was Resume based.

HR Round: General questions such as “why should we hire you”, “where do you see yourself in the next 5 years”, “why do you want to join Oracle” etc. were asked.

Sources of Preparation

Interviewbit, GeeksForGeeks (Company archives, commonly asked interview questions for OS, OOP, DBMS, Computer Networks)

Courses and Certification

DSA, OOP, OS, DBMS, Computer Networks

Other Relevant Information

- Be thorough with all the internships & projects. Try not to mention any subjects or technical skills that you haven’t revised well.

- Apart from competitive programming, revision of core subjects is also important.
- Almost every interviewer asks if we have any questions for them. Ask them about the work and their experience.

Sector: IT

Name: Vipin Baswan (2017A7PS0429P)
Company: Oracle

Profile: Application Engineer

Recruitment Procedure

- Resume shortlisting, Online Test, Technical Interviews, HR
- Online test had various sections (Mathematics, logical reasoning, MCQs related to CS & few SQL queries, language proficiency). Test was easy, but was quite long with less time. Also, each section had its own timer.
- 4 Rounds of interviews
    - 1st round consisted of couple of puzzles and 1 simple DSA (simple DP) problem.
    - 2nd round consisted of 2-3 DSA problems (backtracking, DP), 3-4 SQL queries (intermediate level), few questions related to OOP (what is inheritance, application of runtime polymorphism)
    - 3rd round had 2 DSA problems. 1 was vaguely related to number theory (primes/sieve) and other was a classic DP problem.
    - 4th was final HR round. Typical questions related to work stated on the resume, etc.

Sources of Preparation
- Leetcode and InterviewBit for DSA problems
- Refer to company specific archives on GFG
- Browse through DBMS lab-sheets (mostly related to merges, aggregates, etc.).
- Do read about OOP concepts

Courses and Certification

- Not required.

Other Relevant Information

- Focus on problem solving skills (DSA + puzzles). Do give some time to DBMS & OOP (nothing fancy, just basic stuff would do)

Sector: IT

Name: Vishnu Y S (2019H1120049P)
Company:
Profile: Member Technical Staff - Server Technology

Recruitment Procedure

- The recruitment process consisted of a PPT, an online test, three rounds of technical interviews, and an HR interview.
- The online contained only MCQs with 4 sections, with each section having a separate time limit. The topics of the MCQs included aptitude, logical reasoning, English language, Program Outputs, OS, DBMS, and CN.
- In my first round of the interview, the interviewer started about my projects that included web technologies like rest API and HTTP. He was checking my understanding of those project concepts. He also asked me questions regarding the Linux terminal to find and print specific lines of a stream of data being generated that contained a required pattern. Then, he asked simple coding questions like string reversal, and then he asked K-reversal of the linked list with an additional constraint that the reversal should take place only if the k elements are in ascending or descending order.
- In the second round, the interviewer started with simple questions like min, max, and the average of two arrays. He asked file operations in Python and asked me to write a program to read a file and find the count of all words and print the top three words among them. When the program I wrote using Python's in-built function didn't handle cases with punctuations at the end of the word, he asked me to write a function that can handle all cases without inbuilt functions. Next, he gave me a SQL question to find the name of the employee having the highest ID. In computer networks, he asked me to explain public-key encryption. He asked me a puzzle about percentages and ended the interview.
- The third round was entirely focussed on my projects and my work experience. The interviewer asked me to explain in detail what my project was about and my contribution to it. She asked me about my work and how much I was involved, and if I had an onsite experience handling clients. She asked me to explain the complexities and the issues I faced while working on the client site and how I resolved it.
- In the HR interview, she asked me the reason I left my job for higher studies, then why oracle. She also asked me to give me an elevator pitch about myself.

Sources of Preparation

GeeksForGeeks and InterviewBit for coding. GATE syllabus for DSA, OS, CN, and DBMS.

Courses and Certification
NA

Other Relevant Information

- Confidence is one of the essential aspects of an interview.
- No interviewer expects the candidates to answer every question. They intend to check the level of understanding of the candidate and see if that person fits the team. Understand the intent behind the questions and answer them honestly.
- Learning about the company before the interview helps crack the interview so that you can tailor your answer to fit the company's requirements.

Sector: IT/ET

Name: Kaustuv Banerjee (2017A7PS0124P)

Company: PayU

Profile: Software Development

Recruitment Procedure

Three interviews and a HR round.

Sources of Preparation

Leetcode
Hackerrank
GeeksForGeeks

Courses and Certification

DSA is essential.

No certification as such.

Other Relevant Information

Have a good grasp on the projects you mentioned in your resume.

Sector : IT

Name : Keshav Sharma (2017A7PS0140P)

Company : PayU Payments Pvt Ltd.

Profile: Software Engineer

Recruitment Procedure: Online Test, Technical Interviews

- Online Test had 2 sections:
  - The first section had Aptitude and Technical MCQ questions.
  - The second section had 3 coding questions, 2 medium level and 1 hard level. Questions were based on Strings, Binary numbers and DP.
- There were multiple rounds of technical interviews. These involved thorough understanding of OOP concepts, DSA questions, applications of OS concepts, SQL queries and DBMS joins
- The final round involved gathering insights on the college projects and resume points. Be thorough with he projects you have done and bring out the learning outcomes.
- After getting selected for Summer Internship and working hard for 2 months, I received a PPO.

Sources of Preparation: InterviewBit, GeeksForGeeks (especially Company Archives), LeetCode

Courses and Certification: OOP, DSA, OS, DBMS

Other Relevant Information: In the technical interview, try to walk them through your procedure of problem solving as they may try to help you in case you are stuck. This will help interviewer understand the path you have chosen and get more insights into your thinking ability. Be thorough with everything on your resume as you can expect a lot of skills and project-based questions. Go through company's archives to understand what area/level of questions to expect. Most importantly, stay calm and composed. You'll ace it!

Sector: IT

Name: CHITNEEDI HEMANTH SAI KUMAR (2019H1120068P)
Company: Pega Systems

Profile: Software Engineer – Grade 7

Recruitment Procedure

- Online Test, Technical round, Manager round, Director round, HR round
- Online Test had 2 sections:
    a. MCQ's that are doable with GATE preparation.
    b. 3 Coding Questions. 1 easy, 2 medium level difficults (GeeksforGeeks problems)
- Test was easy but competitive as they short less people. Try attempting all the code at least with satisfying some test cases will help
- Technical Round:
    a. Tell me about yourself
    b. Quick discussion on the programming language of my choice (why python?) and question from online test
    c. CODE: Given an array list, remove(inplace) the elements which are multiples of 3. (Return the same list)
    d. CODE: Find the factorial of given number using recursion, The emphasis was on what would be the return type of the function and how to handle huge values (1000!, 10000!) with the return type that was used.
    e. Puzzle 1- Given two sand clocks one of which measures 7hrs and other measures 3hrs, using them how do you measure 9hrs.
    f. Puzzle 2- There are eight balls (similar in shape, size and colour) of them one has an unequal weight, when a pan (balanced pan) is given how do find the unequal weight ball with minimum comparisons

    Puzzles were the deal breaker for this round.
- Manager Round:
    a. CODE: Given a number say 1024.50, return One thousand twenty four rupees and fifty paisa
    b. Swap two numbers without third variable, asked two approaches.

c. How do you design a website that has capability to switch to multiple languages (German, French, etc) and those languages have their own format of writing numbers it might not be simple word conversion? (Given an ML/DL approach).
d. Asked about personal interests (SW part of SWOT).
e. There will be instances where you might not get technical work (during release some release specific work must be done) when your manager is doing it, how will you approach this?

- Manager Round:
  This round is just to check the values that Pega Systems possess. (Organization Fit test)
  This is completely situation-based round, few situations were asked to have you ever been in such situation and how is that delt
- HR Round:
  Quick discussion on location and interests.

Sources of Preparation

Coding Interview question from Geeksforgeeks and leetcode, along with leetcode medium level problems. For puzzles refer puzzles page from geeksforgeeks.

Sector: IT

Name: Swathi B (2019H1400120P)
Company: Qualcomm India Private Ltd

Profile: Engineer

Recruitment Procedure

- Recruitment process was online, first we had a placement examination followed by 2 technical interview rounds and then an HR interview.
- The examination had 3 sections: General Aptitude , Technical aptitude, Programming Basics. The General aptitude section had lengthy data interpretation questions for which timing was critical. Technical aptitude majorly included digital electronics and Verilog related MCQs. Programming section had code output based questions on C and basics concepts of OOP MCQs.

- There were 2 technical rounds each approximately 45 mins.
- First round was on Embedded system related questions. Questions on embedded code compilation process - compiler and linker basics , I2C interfacing design considerations, storage classes , static , volatile qualifiers and where they are used.
- Second round was on Digital circuit design and Verilog HDL. Questions on Verilog concepts like fork, join, blocking and non-blocking assignments, synchronous and asynchronous reset, task and functions were asked. Both the rounds included C programming questions and general puzzle questions.

Sources of Preparation
Digital basics knowledge is must for both interview and written test. Prepared from Morris mano text books, previous years gate papers. Verilog - Design through Verilog HDL – Padmanabhan text book, practice verilog from HDLbits site. For C programming, Geeks for Geeks C MCQ set and C puzzle coding questions. Revise concepts from Embedded System Design course

Courses and Certification
VLSI Architecture, ESD, RTS from our curriculum. Introduction to Embedded Systems Software and Development Environments Coursera, Hardware modelling using Verilog NPTEL course by Indranil Sen Gupta

Other Relevant Information
The focus was on the approach to solve the questions on C programming and puzzle questions, elaborating on how we arrived at our answer is necessary.

Sector: IT

Name: Aditya Pratap Singh(2017A2PS0967P)
Company: Tekion
Profile: Software Engineer

Recruitment Procedure

Coding round+2 Technical interviews +HR interview

- Coding round had 3 DSA questions and 12-14 MCQs. MCQs had questions from OS,DBMS,OOP and networking and were of easy to medium difficulty.

Technical rounds

- They primarily revolved around Data Structures and Algorithms.
- Standard questions of major data structures like Trees and Linked Lists
- Questions of interviewbit would be sufficient for this round.
- OOP and ML questions were also asked as they were mentioned in my resume
- Second round was based on my projects which were based on Neural Networks.

HR round

- It was more like a discussion rather than an interview.
- No specific preparation was required for this round

Sources of Preparation

Interviewbit, Leetcode and GeeksforGeeks

Courses and Certification

DSA, OOP and ML

Other Relevant Information

Just focus on Data Structures and Algorithms.

Sector: IT

Name: Aniruddha Jayant Karajgi (2017A7PS0084P)

Company: Tekion

Profile: Software Engineer

Recruitment Procedure

Rounds: Resume Shortlisting, Online Test, 2 Technical Interviews, Managerial Interview, HR Interview

Online Test

- MCQs on CS theory were asked including a few coding questions.
- The coding questions were of moderate difficulty.

Technical Interviews

- medium to medium-hard questions (based on leetcode's scale) were asked, followed by a complexity analysis.
- CS theory questions were also asked. Though most of these questions were pretty straight-forward, a few were a little tricky.

Managerial Interview

- A few questions about my experience.
- Some behavioral questions like "Mention your strengths and weaknesses." and "Where do you see yourself in 5 years?" were asked.
- Follow up questions based on my responses were asked.
- Probably because my profile was focused more on ML and data science, some very basic ML questions were also asked.

HR Interview

- This was more of a discussion.
- After a brief introduction, he asked me about why I was interested in the company.
- After a few more open-ended questions, I was invited to ask questions if I had any.

Sources of Preparation

- Leetcode
- Interviewbit
- GeeksForGeeks

Courses and Certification

Questions from core CS subjects like Computer Networks, DBMS, OOP and DSA were asked. A few very basic ML questions were also asked in the later interviews (most likely because of my ML focused profile).

Other Relevant Information

Apart from a strong resume, you should have great conceptual clarity in CS theory. Though you don't need to be a hardcore competitive programmer, you should be able to solve at least medium to medium hard algorithmic questions in a reasonable amount of time. Most of the questions I was asked were moderate to moderate-hard, with hard ones making up the rest.

Sector: IT

Name: Ayush Chandak (2017A8PS0434P)
Company: Tekion

Profile: SDE Role

Recruitment Procedure

- Resume Shortlisting
- Online Test
  - MCQs, 3 Coding Questions (1-array and 2-dp)
  - Questions of Medium Difficulty Level. It was important to maintain speed as all the questions were to be done in 1 hr 30 minutes.
- Technical Round 1 –
  - Resume go through
  - 2 Coding Questions - Finding the intersection point of two linked list, Question on Graph
  - Puzzle – Using Minimum Numbers from 1 to 12, construct the numbers from 1 – 12 and 1 – 15.
  - Questions on OS and OOP
- Technical Round 2 –
  - Resume go through
  - 2 Coding Questions – Question on Graph, given a diamond tree find the sum of nodes at the middle level
  - Questions on OOP – Interfaces, Multithreading, Design Patterns
  - Question on OS – Scheduling, Semaphores, Mutexes, PC Booting
- Manager Round –
  - Resume and Projects
  - Questions for the company
- HR Round

Sources of Preparation

Coding Questions – LeetCode, InterviewBIt

OOP, OS – Lecture Slides, NPTEL Videos

Other Relevant Information

Confidence is key. Be prepared for standard HR Questions – tell me about Yourself, Your strengths and Weakness etc. Have good knowledge about the projects mentioned on the resumes. Puzzles might be asked in some rounds (see GeekforGeeks, InterviewBit)

Sector: IT

Name: Deepak Agarwal (2016B4A10598P)
Company: **Tekion**
Profile: Software Development Engineer

Recruitment Procedure:- Online test, 2 technical rounds, Managerial round, HR

- **Online Test**

  The test consisted of fifteen multiple choice questions and three coding questions. The MCQs required knowledge of SQL, Networking, DBMS, OOP, OS and some basic output questions. The coding section consisted of questions on Dynamic Programming, binary search and arrays.

- **Technical Round**

  Every topic was covered except DP and graphs. It started off with basic questions like printing diagonal elements of a 2D array, continued with priority queue, hashing and ended with trees. We didn't have to run the programs, just write the code and explain the logic behind it. A total of 5-6 questions were asked in this round. The interview was for 1 hour 15 minutes.

- **Technical Round**

  Two questions were asked from me and the programs have to be compiled this time, testing your accuracy on the edge cases and some specific cases. First question required the use of stack and queue data structure. I got this one right. I answered the second question with hashing but the interviewer wanted a more efficient approach. I tried binary search and got the code partially correct as the time was up. The interview was for 50 minutes.

- **Managerial Round**

  This round was basically the resume round. Preparing resumes thoroughly is a must. I was asked about my Practise School-1, my extracurriculars and then finally my projects. I did some projects in Django in the field of web development which I explained in a gist, telling some libraries and few other specific details. This round was for 20 minutes.

- **HR Round**

  This round was just a casual conversation round with the HR. Telling about some personal interests, hobbies and how did I get into coding being a non CS student. This round lasted for 15 minutes.

Sources of Preparation: - Geeks for Geeks and Interview Bit

- Always start with solving basic questions of every data structure from Geeks for Geeks or any of your preferred sites, and get a good hold of them before moving on to Interview Bit. Interview Bit consists of a set of standard questions and getting through most of the technical rounds is not that tough if you have solved the entire Interview Bit.

Courses and Certification

- Bit and Bytes of Computer Networking from Coursera
- DSA
- OS from course slides
- OOP, Sql from Javatpoint

Other Relevant Information

- Interacting with the interviewer and having confidence is the key. Do not try to fool the interviewer with something that you don't know about. If having trouble with any question, giving a less efficient approach is not an issue. It helps you buy time. Also, the interviewers sometimes help fix your common mistakes or help you with the efficient approach.

Sector: IT

Name: Devendra Toshniwal (2019H1120059P)
Company: Tekion
Profile: Software Engineer Recruitment
Procedure

- Round 1 (Online Coding Round):
  This round was conducted on hackerearth platform, there were 15-16 MCQs(all technical) and 3 coding questions one was DP.

- **Technical Interview I**:
  - Started with, tell me something about yourself? Then I was asked about my project which I have mentioned in my resume.
  - Main features of OOPS and explain, what is runtime Polymorphism, write code to explain? Follow up questions from the same with all possibilities like make child class object and parent class reference and so on.
  - What is in-place, stable, and external sorting. Write merge sort, I wrote that on notepad. Derive recurrence relation for the same and find the time complexity.
  - Do the same code without using extra space.
  - Assume we have a RAM of size 8GB and data of size 64GB which can easily be fit in the secondary memory, is it possible to sort this data, if yes how and explain the procedure for the same.

- **Technical Interview II**:
  - The very first question was, what is the need of Design Patterns, name some of them. Follow up questions on the same topic are:
  - What is singleton Class? Write code to illustrate singleton Class? What the need for this type of class. Create multiple objects and explain it through the code.

- What if two thread try to create the object of the singleton class simultaneously? How to prevent them to do so (Answer is synchronization).Write code to explain synchronization?
- Different types of join in SQL and explain them. Create some dummy tables and write a left outer join query and explain the output? What is Indexes in SQL?
- Define ACID properties?
- Open some compiler and write a code to print all the pairs, whose sum is equal to the target, consider array may have duplicates. All the duplicate elements will be treated as different from another. After writing the code, what are the edge test cases have you handed everything? Time complexity of the code?

- **HR round**:
  No managerial round for me, directly got the call for HR round. Typical HR questions were asked, some of them are tell me something about yourself, two weakness, 2 strong points, your family background, what you know about Tekion.

Sources of Preparation

LeetCode, GeekforGeeks, InterviewBit

Courses and Certification

Nothing as such

Other Relevant Information

Practice writing code on paper(very important). Practice coding in online contests to see how you perform in limited-time and hidden-testcase environments.

Sector: IT.

Name: Niranjan Deepak Dandekar (2019H1030509P)
Company: Tekion
Profile: Software Engineer

Recruitment Procedure:

- Online Test, Technical Interview, HR
- Online Test had Technical MCQs (Regarding Data Structures, Networking, Databases, OS, etc. basics) and 3 coding questions. Marks were assigned to each coding question according to its difficulty. We had 2 questions of 50 marks each and 1 question of 20 marks. Around 40+ people were selected for the next round. Coding questions were of Medium level difficulty.
- There were 2 Technical interviews conducted for all people. In the first one, the interviewer started with questions like Tell me about yourself (as an icebreaker) and then asked some project related questions mentioned on my resume. In the coding part, it was based on linked lists with several questions like:
    1. Intersection of linked lists (whether the given linked lists intersect)
    2. Loop detection in a linked list.
    3. Number of nodes in the loop of a linked list.
    4. Find the starting element of the loop, etc.

  I started with Brute Force approaches and moved my way up to the optimal solution.

The interviewer was quite helpful and was listening to every step description that I was giving.

- The second Interview also started on the similar lines but more questions about the project were asked. In the coding part of it,
    1. Zig-zag traversal in a Binary Tree
    2. Finding the square root of a number till the given precision.

  Second question was a bit tricky as I had not thought of it before.
- In the HR round the interviewer was just interested to know your overall experience and asked a few simple questions (not technical).

Sources of Preparation

Geeksforgeeks (Must do part at least), InterviewBit, Coding Interview Questions by Narsimha Karumanchi were extremely helpful.

Courses and Certification

None

Other Relevant Information

As per my experience, the interviewers are there to help you out. If you are stuck at some point, express what you are feeling (like what you thought a good approach might be). Always remember the interviewers focus on your logic rather than just focusing on the final solution.
All the best !!

Sector: IT

Name: Pavitra Gautam (2016B2A10695P)
Company: Tekion

Profile: Software Engineer
Recruitment Procedure

1. Coding round (90 minutes) :
    - 15 MCQs from OOP, OS, Computer Networking, and SQL
    - 2 or 3 coding questions (one from dynamic Programming)
    - MCQs were easy and could be solved within 10 minutes. Coding questions were a bit difficult.
2. Technical Interview 1 (50-55 minutes):
    - Three coding questions.
        a. Linked-list (flattening a 2D-Linked List)
        b. Recursion (minimum number of jumps to reach the end)
        c. DP (LIS)
        d. Code has to be written on a google doc and only dry run was required
    - Basics of OOP such as the difference between abstraction and encapsulation with an example, one question from method overloading and method overriding
    - Some questions from Computer Networking like explain DHCP discovery, how DNS server works, etc.

3. Technical Interview 2 (85-90 minutes):
    - Three coding questions:
        a. Linked list (detect a loop in a linked list with different time complexities)
        b. Two from Trees (printing the right view of a BST)
        c. Questions were easy as compared to technical interview 1 but they had to be written on an online IDE and the test cases were given by the interviewer
    - Some questions from the Operating Systems like necessary conditions for deadlock, various mechanisms for synchronization, which synchronization mechanism is better and why, detection of deadlock using RAG, etc.
    - He also asked one question from DBMS but I told him I'm not familiar with DBMS concepts.
    - This all went for around 45 minutes. The interviewer then grilled me on my back-end projects for the next 45 minutes
        a. He asked about Representational state transfer (REST) API, RESTful routing
        b. HTTP request verbs like GET, POST, PUT, PATCH, etc. with their functionalities

c. Different Node.js libraries I used and their usage, why Node.js, some pseudo-code, etc.

4. HR Interview (15 minutes):
   - General HR questions like why engineering, why IT if you're from chemical, strengths & weaknesses, extra-curricular activities, how are you coping up with lockdown, etc.

Sources of Preparation

GeeksForGeeks, InterviewBit

Courses and Certification

- OOP, OS: Lecture Slides & youtube
- DSA: GeeksForGeeks, InterviewBit
- Computer Networking: from Coursera (Bits & Bytes of Computer Networks series)
- Back-end Web Development: Udemy (Web Development Bootcamp)

Other Relevant Information

DSA and OOP are a must. OS and computer networks are a plus. Some knowledge of SQL is also advantageous. But these things are secondary, DSA is the most important subject. Practice as much as you can. Also, if you are targeting a Day-1 company then you must have good command on Dynamic. Programming and Graphs. Almost all Day-1 companies asked DP in their coding round.

Sector: IT
Name: Rutvik Shah (2019H1120179P)
Company: Tekion
Profile: Software Engineer

Recruitment Procedure

The procedure comprised of one online coding round followed by 2 rounds of technical interviews and one HR interview round.
Coding Round:
The online coding round was on HackerEarth platform having around 15 MCQ questions and 2-3 coding questions. The time duration was 1 hour 15 mins.
Interview Round 1:
2 coding questions were asked. First one was given an array of Strings, remove all the anagrams from the array. Then the interviewer changed the question and asked to remove all the palindrome Strings from the array and to implement it in preferred language. Second question was given two linked lists head pointers, find intersection point out of it. I gave 3-4 approaches to the interviewer. Then she asked me to implement it in 2 different ways.
Link: https://leetcode.com/problems/group-anagrams/ and https://leetcode.com/problems/intersection-of-two-linked-lists/
Few technical questions: OOPs concepts, DBMS indexing and how it works at lower level, types of joins etc.
Interview Round 2:
Questions on projects and based on industry experience were asked. Then the interviewer gave me a problem statement: Given two sorted arrays of different length along with a value X, have to find the nearest some of two elements, one from each array whose some is nearest to the X. Then asked me to the code the same. Then he asked me the best suited data structure to maintain the log book at the entry point of any organization. Had a very long discussion on this problem with every time slight change in the problem statement.
Link: https://www.geeksforgeeks.org/given-two-sorted-arrays-number-x-find-pair-whose-sum-closest-x/

HR Round:
General discussion related to family background and hobbies. Then few popular HR questions: Why do you want to join Tekion? etc.

Sources of Preparation
Leetcode, InterviewBit and, GeeksForGeeks

Courses and Certification
DSA, DBMS, OS, SQL, OOP and, Java

Other Relevant Information

Start preparing early. Be prepared for questions on resume and general questions such as introducing yourself. Practice competitive coding and leetcoding as much as possible. Go through interview experiences and PU chronicles before your interview to find out the important subjects and questions asked in the interview.

Sector: IT
Name: Rutvik Shah (2019H1120179P)
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HR Round:

General discussion related to family background and hobbies. Then few popular HR questions: Why do you want to join Tekion? etc.

Sources of Preparation

Leetcode, InterviewBit and, GeeksForGeeks

Courses and Certification

DSA, DBMS, OS, SQL, OOP and, Java

Other Relevant Information

Start preparing early. Be prepared for questions on resume and general questions such as introducing yourself. Practice competitive coding and leetcoding as much as possible. Go through interview experiences and PU chronicles before your interview to find out the important subjects and questions asked in the interview.

Sector: IT
Name: SURBHI GUPTA(2019H1120061P)
Company: **Tekion**
Profile: Associate Software Engineer

Recruitment Procedure

- Online Test: The test was on HackerEarth. Every question had some marks associated with it. 15 MCQ with marks from 2 to 6. There were 3 coding questions(50,50,20 marks). MCQ were of CS Fundamentals. 41 students shortlisted for interview.
- Round 1: Coding questions: Missing Integer, Middle element of Linked List, Maximum square of 1's. Full code was asked. OS and OOPS questions were asked.
- Round 2: Coding questions: Given two sorted arrays find two numbers one from A and other from B whose sum is close to a given number X, Rearrange the array such that any number in array has its adjacent elements greater than or less than the number(when considered the middle of the adjacent). Complete running code was asked. Projects on the resume were asked.
- Round 3: HR. Tell me about yourself. Family background. Journey in BITS. Weakness and strengths. The duration was very short 15 minutes I guess.

Sources of Preparation:
GFG, InterviewBit, GATE Notes

Courses and Certification
None.

Other Relevant Information
Know everything written on the resume. Prepare subjects well.

BITS Pilani
Pilani Campus

Domain

Mechanical

Table of Contents

Sector: Chemical/Mechanical

Name: Aditya N (2019H1010504P)
Company: Aequs Aerospace Processing India Pvt Ltd

Profile: PG Engineer Trainee

Recruitment Procedure

- Aptitude test
- Two rounds of interview: Basic details of candidate; Questions about projects completed; Explain scenario if above said project was actually implemented
- Final HR interview: Questions about candidate's weaknesses, challenges overcome, and other questions to test character.

Sources of Preparation

Refer company website for details on special processes involved. Read up on all major projects/internships/other activities completed.

Courses and Certification

None.

Sector: Mechanical

Name: Devanga Maheshkumar (2019H1060532P)
Company: ArcelorMittal Nippon Steel India
Profile: Graduate Engineer Trainee

Recruitment Procedure

Written test, technical interview, HR interview

Written test:

- It has technical and aptitude sections. Technical part was mostly simple numericals and theoretical questions which were easy. Aptitude portion was medium level difficulty.
- After the written test, they have shortlisted 5 people for the technical round

Technical interview:

- Video call with HR head and one technical person.
- Questions started with my introduction, some technical questions from subjects like SOM, MD and Material science etc. I remember they have asked a few questions on welding and heat treatment processes in steels etc.
- Finally, HR asked a question as to why I want to join a steel company
- After this they have made HR interview via a phone call for those who shortlisted.

HR interview:

Questions:

- Tell me about yourself.
- What is your favourite movie?
- Describe the crux of the movie briefly!
- What is the impact on Indian students with the change of power in US from Donald Trump to Baiden?
- And few more general questions.

Sources of Preparation

For written test:

- University test series, Arun Sharma CAT books, GATE short notes

For technical & HR interviews:

- My GATE short notes & class notes, and YouTube knowledge

Courses and Certification

- edX certificate on “Hands on Introduction to Engineering Simulations’

Other Relevant Information

Sector: Mechanical

Name: Karthik Nath S (2019H1420140P)
Company: Daimler India Commercial Vehicles

Profile: Post Graduate Trainee

Recruitment Procedure

- Online Test, Resume Shortlisting, Group Discussion, Personal Interview (PI)
- Online Test was easy and mostly focused on mechanical GATE/ ESE questions. However, it is important to maintain speed to finish all questions. Need a good grasp on Mechanical fundamentals and good problem-solving skills. 6 people were shortlisted in this step.
- Group Discussion – Abstract topics relating to Commercial Vehicles were given. The GD took 50 minutes overall with 45 minutes of discussion and 5 minutes of closing remarks. 4 people were shortlisted.
- The PI had a mix of technical and HR questions such as
- Questions:
    a. Tell us about yourself.
    b. Follow up questions from what you answer.
    c. Explain the projects listed in the resume and the work done at the internship.
    d. Scenario based questions – Consider meeting the CEO in a lift and pitching yourself in 2 minutes as suitable for the position / Consider a foreign client and how you would work on a project that needs physical attendance virtually etc.
    e. HR based questions – Why are you a good fit for Daimler / What do you know about DICV etc.

Sources of Preparation
The preparation for the online test can be done through revision of the mechanical fundamentals / GATE / ESE notes. Interview prep such as Indiabix, websites can help. Soft skills for GD, Interview can be prepared through tutorials, university assistance etc.

Courses and Certification

No subject as such are required. Candidates were asked easy questions from their resumes.

Other Relevant Information

Take some time to know the company beforehand as DICV expects you to know something about the job role, work culture, CEO when they go for the final interview.

Sector: Mechanical

Name: Rohaan George Thomas (2019H1420136P)

Company: Daimler India Commercial Vehicles

Profile: Post Graduate Trainee- Research & Development

Recruitment Procedure

- Resume shortlisting, Computer based online recruitment test (AMCAT), Pre-placement talk, Group Discussion, Interview (Combined Technical + HR).
- Computer based online recruitment test (AMCAT) - Conducted by Aspiring Minds

Section	No. of questions	Time
English	25	25 minutes
Logical	24	35 minutes
Quant	25	35 minutes
Production	18	20 minutes
Total:	92	1 hour 55 minutes

No negative marking.
All questions are mandatory; questions cannot be skipped.

- **Group Discussion**
  - Total duration of GD: 15 minutes
    4 minutes: preparation time
    7 minutes: for/against the topic
    4 minutes: conclusion
  - Students were given 4 minutes to search for essential facts and figures to defend their side (for/against).
  - They made their case for the next 7 minutes.
  - In the final 4 minutes, everyone were given a chance to give a conclusion based on the facts put forward.

- **Online Interview**
    - The interview went on for 40 minutes. Approximately 25 minutes of technical questions and 15 minutes of HR questions.
    - Panel members:
        1. General Manager – R&D, DICV
        2. Assistant General Manager – Human Resources, DICV
        3. Assistant General Manager – Product Engineering, DICV
- Questions:
- *Introduce yourself.*
- Technical questions: Questions were about the first 3 projects of the total 5 projects mentioned in resume.
    - (First project was the ongoing Laboratory Information Management System (LIMS) development project being done at Kalyani Centre for Technology and Innovation, Bharat Forge as part of Practice School-II. Second project was Redesign of ceiling fan duster done as part of Product Design course, and third project was Analysis of Factors affecting sustainable growth of Electric Vehicles in India done as part of Research Practice and Study of Advanced Topics.)
    - *Tell us about the LIMS development project at Bharat Forge.*
      Which language are you developing it in?
      As per resume, you have computer science background in your 10th-12th. Has it helped you in your current project?
    - *Tell us about the project Redesign of Ceiling fan duster.*
      Explain the steps that you followed.
      What was the result?
      How did you meet the customer needs?
    - *Tell us about the EV related project that you have done.*
      What were the steps involved?
      What were the results of your study?
- HR questions:

  Scenario based questions:
    - *Suppose you inherit all the possible wealth in the world, what will you do? Will you take an early retirement? Will you take a lifelong vacation?*

- *Suppose you are placed in Daimler, and you get all the training from Daimler. Then Tesla gives you an offer that is 40% more than your current offer at Daimler. Would you choose tesla over Daimler?*

- Workplace based questions:
  - *What are the qualities that you expect from your manager?*
  - *Tell us about the most difficult time of your life and the decision that you took at the time. And the reason behind the decision.*
  - *How would you communicate an information to a person whom you personally do not like?*
  - *What is the biggest value/virtue that you hold close to your heart?*
  - *Do you have any questions for the panel?*

Sources of Preparation

Aptitude Course provided by PU is sufficient for clearing the AMCAT round. Need to be thorough in everything mentioned in the resume to clear the interview.

Courses and Certification

G531 Product Design, G540 Research Practice and G513 Study in Advanced Topics helped a lot in tackling the interview.

Other Relevant Information

DICV interviewed for 3 profiles – R&D, Procurement and Operation Excellence. DICV categorizes shortlisted students for the profile based on resume and conducts the interview. CGPA plays a role for consideration of R&D profile.

Sector: Manufacturing/Mechanical.

Name: Yaganti Sasidhar Reddy (2019H1420603P)
Company: Daimler India commercial vehicles
Profile: PGT - Procurement

Recruitment Procedure:

- Resume got shortlisted at first according to their needs and requirements.
- Online test was conducted using AMCAT platform, basic aptitude questions and questions related to mechanical engineering was asked and level was easy to moderate.
- After candidates whoever got shortlisted for the GD were assembled and made into two groups and discussions were conducted with each person getting at least 5 min for talking about general topics and we were even allowed to browse for the topic at the start.
- Then for the next round, Interview took place, which consists of technical and Hr rounds. Questions were normal and related to the supply chain management as I got interviewed for the PGT role of Procurement and general Hr questions were asked.
- Here the process which was being conducted was for two campuses combined for BITS Pilani and NIT Trichy.

Sources of Preparation
For supply chain management , I referred SCM by chopra and kalra and for aptitude I practiced from the online sources.

Courses and Certification
I have done some courses related to supply chain from coursera on analytics and logistics of supply chain. Then improved my Excel skills and learnt languages like python through some courses, which were useful during my interview.

Other Relevant Information

Other important aspect is we should incline the resume to the profile of job to which we are applying, So that recruiter will realize that the candidate has done related projects and have relevant skills and he feels that we have interest in the job profile and we can perform further in that field.

Sector: Mechanical

Name: Divy Desh Srivastava (2019H1410585P)
Company: General Electric

Profile: EEDP (Edison Engineer Development Program)

Recruitment Procedure

- Online Test, Technical Interview, Managerial Interview, HR Interview
- Online test had 3 sections:
    1. Aptitude – Quant and Logical Reasoning questions
    2. English – basic question types like fill in the blanks, choose the correct statement etc.
    3. Technical – Questions related to core mechanical subjects.
- The aptitude and English section were easy but required speed. Technical section was somewhat difficult with theoretical questions like that asked in IES. Numerical ques were less. Going through theoretical questions asked in IES previous year papers will help.
- Technical Interview Questions:
    1. Tell us about yourself
    2. Tell us about your projects (any of your choice) – I chose my FEM project based on stress and deformation of structures.
    3. Follow up questions related to basic concepts – They want to check how much clear your basic undergrad concepts are. They asked me questions about Failure theories, machine design, high and low cycle fatigue etc. Take your time to think about the questions.

• It is highly recommended that you are clear about your projects and the underlying concepts related to them.

• Managerial Round Questions:
    1. How can you contribute to the company
    2. What are your expectations from the company
    3. Would you be able to switch to a managerial position if given a choice in the future

• This round had questions somewhat similar to HR round. They want to check that do you possess the skills for a managerial responsibility if it is given to you in the future. Your answers can be based on your past experiences and POR(if any) that you held in your college.

• HR Round:
    1. Why do you think GE is a better choice than other companies
    2. What can you bring on the table
    3. Where do you see yourself in 5 or 10 years
    4. Situation based questions

Sources of Preparation
Your GATE/IES notes, online available aptitude test series, Previous year solved IES papers(for theoretical questions in technical section)

Courses and Certification
Nothing specific as such.

Other Relevant Information
Most core companies have a similar process. Their tests mostly consist of aptitude and technical sections. So, revising your basic undergrad concepts is a must. The interview also focuses on basic concepts only.
Try to know about the company before going to the interview. What are their businesses, how do you fit there. This will help in HR round.

Be clear about which job profiles you are interested in, you need to know of other job opportunities specific to your specialization and then justify why this job profile among all the choices you have. You need to convince the recruiter that why you want to apply for this profile and wish to join their organization.

Sector: Mechanical (Plant Engineering)

Name: Abhishek Singh (2019H1410594P)
Company: L&T TECHNOLOGY SERVICES LIMITED

Profile: Plant Engineering Intern

Recruitment Procedure

- Aptitude and Technical Test – AON (2 Hour) followed by Technical Interview.
  Level of questions was simple. Brushing up simple core knowledge will work.

Sources of Preparation
Placement material for aptitude provided by PU. Go for simple 1 liner ESE questions for Technical. Technical interview was mainly focused on product design. Learn Product design methodology discussed in Class**.**

Courses and Certification

Not Needed.

Other Relevant Information
Relax and answer Calmly. They look for learning attitude.

Sector: Mechanical

Name: Varun Uday Sampat (2019H1410128P)
Company: NewSpace Research & Technologies

Profile: Design Engineer I - Structures

Recruitment Procedure:

- Online Behavioural and cognitive assessment test, Technical Interview, HR interview
- Test had 2 sections:

    i. Behavioural assessment test to judge your compatibility with the values of the organization. No time limit.
    ii. Cognitive assessment – 50 Questions in 12 minutes, consisted of questions from quants, Verbal, and logical reasoning.
- Test was easy. However, speed and accuracy were the deciding criteria.
- Technical Interview:
    i. Logical and Fundamental Questions based on Finite element method, composites, strength of materials, Mechanical Vibrations, Machine Design.
    ii. In-depth technical Questions based on the projects mentioned in your resume.
    iii. Some questions based on selection of the project, challenges and problems encountered during the project and how did you overcome them.
- HR interview:
    i. Tell me about yourself.
    ii. Why do you want to join our organization.
    iii. Life at BITS Pilani.

Sources of Preparation:
Lecture notes, Standard textbooks for Mechanical Engineering, YouTube, Online resources

Courses and Certification:
No particular courses or certifications were desired as such, though one can prepare for questions based on composites.

Other Relevant Information:
Fundamentals of Mechanical Engineering subjects and the projects mentioned in your resume should be prepared thoroughly.

Sector: Mechanical

Name: Shivam Agarwal(2019H1410591P)
Company: Sona Comstar

Profile: Management Trainee

- Recruitment Procedure
  Resume Shortlisting, Online Test, HR
- Test had 4 sections:
  a. Verbal- based on a short passage, the only type of question was to identify if the given statement can be inferred from the passage or not.
  b. Data Interpretation
  c. Quant
  d. technical
- Test was easy.. Going back to previous questions is not allowed.
- Questions (interview)
  a. Tell us about yourself
  b. Follow up questions from what you answer

Sources of Preparation:
B Tech Subjects

Courses and Certification:
not needed

Other Relevant Information:

be thorough with your btech subjects and projects.

Domain

Miscellaneous

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Sector: Pharmacy

Name: Meghna Pandey (2019H1080533P)
Company: Biocon

Profile: Future Leader Program

Recruitment Procedure
• The recruitment procedure involves Resume shortlisting and Personal Interview.
• Personal Interview: The questions include:

1. Tell us about yourself and follow-up questions.
2. The questions related to basic pharmacy and also related to the research project carried out in the second semester of the M. Pharm course.
3. The question related to how will handle a team and how you will handle a stress solution.

Sources of Preparation
The revision of the basic concepts of the pharmacy knowledge and detailed knowledge related to the research project. The videos related to the preparation of the interview skills.

Courses and Certification
No courses and certification. Just a basic knowledge of the concept of Pharmacy.

Other Relevant Information
Brush up the basic concept of the pharmacy and also before giving an interview just do proper research on the company and the main areas that they deal with as it will leave a good impression on the recruiter.

Sector: Pharma

Name: Ishan Moitra (2019H1460168P)
Branch: M.Pharm (specialization in Pharmaceutics)
Company: Dr. Reddy's Laboratories

Profile: Technical Trainee

Recruitment Procedure

- Resume Shortlisting, Online Test, Technical Interview, HR Interview
- **Online test** consisted of questions mainly from physical pharmacy, and core pharmaceutics requiring sound knowledge of dosage forms. There was more focus on the basics, the ones that we had learnt during B.Pharm.
- The test was MCQ type. Difficulty level: moderate. The time allotted for the test was sufficient.
- **Technical Interview** – The technical interview laid focus on your academic interests. One must be thorough with the basics of Pharmaceutics like dosage forms and their preparations and the details of the quality checks performed. The interviewer lays stress on how well can you explain your B.Pharm and/or M.Pharm projects and the practical applications of the concepts involved in your projects. One might also expect questions from the regular laboratory works/experiments that are done. Lay stress on understanding the critical quality attributes and the related critical process and material attributes.
- **HR Interview –** I was asked to introduce myself. One may face questions regarding the hobbies and extra-curriculars that are mentioned in the resume. I had faced a few technical questions in this round too which required critical thinking.

Sources of Preparation
Regular class notes and GPAT notes. A thorough reading (and understanding) of multiple research papers is recommended, specially the ones involved in your projects. Also, keep up to date with latest scientific developments in the field of formulation development and pharmacy in general.

Courses and Certification
Not any. However, courses related to data analytics, clinical research, and basics of computer programming may be done.

Other Relevant Information

Written rounds are usually easy to crack and almost everyone qualifies for the interview rounds. One must always aim at showing interest for working in the said company during the interviews. If you do not know the answer, there is no need to panic. It is important how well you explain what you know. Putting up a grumpy face or feeling disinterested is highly discouraged during the interviews!

Sector: Pharmacy

Name: Masurkar Shreya Shridhar
Company: Dr. Reddy's Laboratories
Profile: Technical trainee

Recruitment Procedure

- Resume Shortlisting, Online Test, Technical interview, HR round
- Test had technical questions related to pharmaceutics background
- Test was based upon basic knowledge of pharmacy mainly physical pharmacy and dosage forms knowledge.
- Technical Round Questions:
    a. Walk through your resume
    b. About master's project
    c. Any cross question on master's project
    d. If you have mentioned any extra course from coursera or FDA, question about that course like explain learning outcomes of this course

- HR round questions:
    a. Tell me about yourself
    b. If any extra curricular activities mentioned questions about the sports or dance style
    c. Where you saw yourself in 5 years?
    d. Are you okay with working in shifts?

Sources of Preparation
Search for generic puzzles, also study case in point for guesstimates and case based questions which were asked in the previous year (2015) .

Courses and Certification
Not mandatory. But they create impact in interviews if they are from well-known sources like FDA.

Sector: Pharma

Name: Neha Dabholkar (2019H1460161P)

Company: **Dr. Reddy's Laboratories**

Profile: Core Pharma

Recruitment Procedure

- Online test, Technical interview, HR round
- Online Test: 50 questions related to Pharma encompassing all the topics covered in Bachelors and Masters. Majority of the questions were related to Pharmaceutics. Some questions related to Six sigma were asked.
- Test was easy (only core Pharma questions were asked) and the time provided was sufficient to complete the test.
- Technical interview: Core Pharmaceutics questions related to practical applications in industry. Questions related to Research project.

Sources of Preparation

- The Pearson Guide to GPAT & Other Entrance Examination in Pharmacy, by Umang Shah and others.
- Normal coursework.
- Be updated about the Pharma industry.
- Official website of the company.
- Have knowledge about regulatory guidelines and basics like what is branded, generics, ICH guidelines, 505 filings, etc.
- Online videos for introducing yourself, answering the questions asked in HR rounds.

Courses and Certification

- Paying complete attention to the normal coursework is enough to crack the interview.
- Having good knowledge of basics is important.

Other Relevant Information

- Prepare a good introduction for yourself. It is your first impression that lasts with the interviewer.
- Visit the official website of the company and read about its core values.
- Be updated about any new advancements happening in the Pharma world.
- Revise as much basics as possible. Read GPAT notes.
- Focus on core Pharmaceutics part.

Sector: Market Research

Name: Roshini Murali Krishnan (2019H1490853P)
Company: MarketsandMarkets, Pune

Profile: Research Analyst – ICT Domain

Recruitment Procedure

Number of Rounds: 4

- Round 1: Group Interview
- Round 2: Group Interview
- Round 3: Personal Interview – Technical Round
- Round 4: Group Interview

Questions for All Group Interview:

- Tell us about yourself
- About the company
- Logical Puzzle
- Market Estimation and Sizing

Questions for Technical Round:

Basic questions related to ICT Domain:

- Operating Systems
- Artificial Intelligence
- Networking

Difficulty Level of Questions: Moderate

Sources of Preparation
Search of Market sizing and guess estimate questions in the net

Courses and Certification

No particular course or certification is required for the role.

Other Relevant Information

For the technical round, basics on any two topics related to ICT have to be known properly. They will ask questions from those two topics which we know properly. Though round 1, 2 and 4 are group interviews, the questions have to be answered only when they call out our name. It does not happen like a group discussion.

Sector: Market Research

Name: Sai Kiran Vaddi (2019H1490842P)
Company: Markets and Markets

Profile: Research Associate

Recruitment Procedure

- There were 4 interview rounds.
- 1st and 2nd rounds were group interviews where multiple people were tested on logical reasoning and market sizing/estimation questions.
- Questions: Tell us about yourself, follow up questions, logical reasoning puzzle, followed by market estimation.
- The 3rd round was a domain specific technical interview, where we were tested on our knowledge related to the domain in which we were about to work.
- Questions: Tell us about yourself, follow up questions, tell us about your projects related to market estimation/ projects related to previous work experience, follow up questions related to our projects and work experience (if present)
- The 4th round was also a group interview which consisted of a market estimation activity.
- Overall, the interview process was not very difficult, but strong fundamentals are needed related to market research and a general knowledge about regulatory environment regarding various components/goods/services would add value.

Sources of Preparation
Search for logical reasoning puzzles, guesstimates and market estimation fundamentals

Courses and Certification
Nothing as such. Strong fundamentals in statistics, quantitative methods, probability, permutations and combinations would help.

Other Relevant Information

Strong quantitative fundamentals and knowledge about the regulatory environment for various goods/services would help.

Sector: Insurance & Mechanical

Name: Jai Rawal (2017A4PS0407P)
Company: Tata AIG

Profile: Risk Engineer

Recruitment Procedure

- Resume shortlisting, Interview
- Questions:
    a) Tell us about yourself.
    b) Follow up questions from what you answer.
    c) Why do feel you are suited for the job.
    d) HR questions about your strength and weakness
    e) Explain any concept from your field. They will be looking at the clarity of your explanation and thought process.

Sources of Preparation

Nothing specific as such. Be well prepared with your resume points and common HR questions. Reading up about the company also helps.

Courses and Certification

Prepare any subject of your choice from your course. It helps a lot. No other certifications are required.

Other Relevant Information

These types of interviews are FIT based. So, you need to convince the recruiter why you wish to join that particular organisation and demonstrate that you are good at management and leadership. Supporting your answer with incidences where you stepped up will help.

BITS Pilani
Pilani Campus

Domain

Product

& BD

Table of Contents

Sector: Product/BD

Name: Botlaguduru Satvik (2017A8PS0421P)
Company: CollegeDunia

Profile: Business Development Manager

Recruitment Procedure:

- Resume Shortlisting, 2 Rounds of Interviews.
- After resume shortlisting, there was the first round of interviews. In the first round, candidates usually just interacted with the interviewer, as the interviewers mainly checked the candidates' communication skills, and the ability to hold a conversation. Also, questions were asked about the CollegeDunia website and their revenue model.
- In the second round, resume of the candidate was discussed, along with the following questions:
    1. Tell me about yourself.
    2. Follow up questions from the same.
    3. A problem, taking the CollegeDunia revenue model into consideration. It was a simple mathematical problem, involving a little bit of calculation. Thought process is important here, do it slowly if needed but do it in a structured way. And ask for any details necessary that may help in the problem.

Sources of Preparation
Nothing specific, just read up well on whatever has been written in your resume and go through generic puzzles and keep calm and have an open mind while approaching problems. Do go through the company website and their revenue model. Also, try to look up Glassdoor for previous interviews from that place.

Courses and Certification
Make sure to prepare your resume well and be able to defend everything you have written in your resume. Any courses/PORs/skills you mention in the resume, try to be thorough with the same.

Other Relevant Information
Always read up about the company and what they do before you go for an interview. It may or may not be asked, but it's better to be prepared with the same.

Sector: Product/Business Development

Name: Prakhar Sharma (2017ABTS0885P)
Company: Collegedunia

Profile: Business Development Manager

Recruitment Procedure

- Two rounds of interviews were conducted
- First round had general HR questions like why do you want to join, what relevant experience(s) do you have, etc
- Second round was somewhat an extension of the first round, with a guesstimate question in which the candidate had to estimate the number of music-streaming app users in India for a specific duration of time.

Sources of Preparation

- Guesstimates can be prepared with the help of the youtube video series 'Case Interviews Cracked', and mock interview practice is recommended
- Have a general overview of what the company does, what have its goals been in the recent past, and what is the role all about

Courses and Certification

No specific requirement of any particular course

Other Relevant Information

Having points on your resume which help in showing your experience in the relevant field might help.

Sector: Business Development (Consultancy/Analytics)

Name: Sarthak Mahapatra (2017A8TS0456P)
Company: Collegedunia

Profile: Business Development Manager

Recruitment Procedure

- Resume Shortlisting, Two rounds of interview
- The interview were of 15 minutes each, with mostly resume based questions on projects, internships, and POR's held
- Some Questions –
    - Introduce yourself, follow-up questions
    - Why do you want to work in a startup?
    - Why do you think you're the right person for business development?

Sources of Preparation

No specific sources as such

Courses and Certification

No subjects as such, although entrepreneurship courses/electives like New Venture Creation, Creating and Leading Entrepreneurship Organisations, Business Communication might give an upper hand.

Other Relevant Information

NA

Sector: **Business Development**

Name: Satyam Kunal (2017A1PS0029P)
Company: Collegedunia

Profile: Manager – Business Development

Recruitment Procedure

- Resume Shortlisting, HR1, HR2
- Both HR round will have questions which will have questions like:
    a. Introduction - Tell me about yourself and other basic questions.
    b. Logical Ability
    c. Situation-based Questions.
        1. How to pitch the idea to the consumers/ List down some selling points after going through the product/ revenue model.
        2. What features which can be added to the product to make it more consumer attractive.
- Questions from projects that you have mentioned in your Resume. Questions based on Technology Stack you have used.

Sources of Preparation
Basic Interview Puzzles.

Courses and Certification
No subject as such.

Other Relevant Information
The interview is basically to test the thinking ability at the spot. Mostly, the questions will be based on the Company-specific product-based questions and the revenue model.

Sector: Others
Name: Srishti Gupta (2017A3PS0293P)

Company: CollegeDunia

Profile: Business Development Manager

Recruitment Procedure

- Resume Shortlisting, 2 rounds of interview
- No Tech, mostly situational questions and resume grilling. Many questions related to POR.

Sources of Preparation
Aptitude training, Mock interviews, Experience in POR

Courses and Certification
Not required

Other Relevant Information
Thoroughly go through the job description and company profile