



Placement
Repository
Committee

Chronicles

Semester 1

2023-2024

Foreword

In the face of a challenging job market, this edition of the Placement and SI Chronicles highlights BITS Pilani's unwavering commitment to excellence in placements. With over 100 student stories, it serves as a valuable guide for navigating the dynamic job landscape. The perseverance of our students during tough times and the addition of new recruiters underscore the importance of a well-rounded profile. May these Chronicles inspire future batches to conquer challenges and secure success in their professional journeys.

Best of luck to all!



Vipul Singh

Dy. Manager - Placements



Shreekar Puranik
Placement Coordinator

BITS Pilani continues to uphold its impressive placement history, even in the face of a challenging job market this semester. Despite the tough conditions, our students battled it out, showcased their skills, and reinforced BITS Pilani as the top choice for recruiters. This year's Chronicles feature the application experiences of over 100 students, from a variety of different backgrounds and in a variety of different roles. I encourage future batches to explore not only this edition but also previous ones to gain a comprehensive understanding of what companies seek and how to secure a placement or internship. Wishing everyone the very best of luck!

Facing one of the toughest job markets after the 2009 recession, our students worked hard and proved their mettle. I hope that these challenging times have prepared the batch for the dynamic job landscape. We had the fortune of hosting some exciting new recruiters apart from our legacy ones. This particular season established the value of putting your best foot forward in the summer internship season and developing a well-rounded profile. I hope these Chronicles serve as a rough guideline for students to optimize their summers and profiles towards their target summer internships or placements.



Debaayus Swain
Pitching Coordinator

PLACEMENTS

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Disclaimer

This contains entries **only** for On-Campus Placements. Therefore, this would not contain entries of individuals who have secured Pre-Placement Offers either via Practice School-II or via the Summer Internship Programme.

The list of companies and roles offered by them, as displayed by the **Placement Chronicles** is non-exhaustive.

Analytics

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What is Data Analytics?

The collection, organisation, and analysis of data in order to make informed business decisions.

Resources

Check out some training resources provided by the Placement Unit to get started on your preparation for these roles -

1. Placement Training Module for Analytics and Machine Learning by the Career Development Committee, Placement Unit - [click here](#).
2. Basics of Data Visualisation and Machine Learning by the Career Development Committee, Placement Unit - [click here](#).

Present and Previous Recruiters



McKinsey&Company



Accenture India

Introduction

Interviewee - Arnav Tripathi (2020A7PS0082P)

Job Role - Advance Application Engineering Analyst

Number of offers made - 4

Selection Process

Branches open to - All

CG Cutoff - 6.5+

Recruitment process -

Round 1 - Aptitude Test

The round lasted 90 minutes and focused on assessing fundamental logical skills and mental reasoning abilities. Participants faced multiple-choice questions covering both cognitive and technical aspects related to analytics.

Round 2 - Coding Test

During the second round of the coding test for the analytics position, there were two questions related to Data Structures and Algorithms (DSA). The first question was of medium difficulty, similar to what you might find on LeetCode. The second question, however, posed a greater challenge as it was considered hard. Remember that understanding of basic courses like OS and DBMS, as well as C/C++ is a must.

Round 3 - Communication Assessment

In the communication assessment for the data analytics role, I was evaluated on my ability to convey complex analytical findings in a clear and concise manner.

Accenture India

Round 4 - Technical + HR Interview

I was questioned about my past projects, and asked to explain the methodologies, tools, and analytical techniques used. On the HR front, I encountered general questions aimed at assessing my interpersonal and soft skills.

Relevant Courses or Certifications

Even though most of my classes were not exactly related to the job, the CS F212 - Database Systems course is really important. Don't skip learning the main ideas from this class, **especially** if you're not in A7. It'll make you better at answering questions about these topics, improving your chances in tests or interviews.

Personal Experience

Sources of preparation -

To get ready for the analytics role interview, I practiced with sites like LeetCode and GeeksForGeeks. They had questions from previous interviews, which helped me get better at problem-solving and understand the kinds of challenges often asked in analytics interviews.

Words of advice -

Keep practicing with coding questions and make sure you're comfortable with basic CS stuff like Operating Systems (OS) and Database Management Systems (DBMS). If you're aiming for a placement in this role, staying sharp in these areas will be really helpful.

Axxela Advisory Services LLP

Introduction

Interviewee - Amay Avinash Patil (2020A3PS0322P)

Job Role - Trainee Analyst

Number of offers made - 2

Selection Process

Branches open to - All

CG Cutoff - 6+

Recruitment process -

Round 1 - Resume Shortlisting

Round 1 - Logical Aptitude Test

Preceded by Resume Shortlisting, this round was a basic Mental Ability Test that tested my logical reasoning and aptitude.

Round 2 - Technical Round

My role is related to the derivatives in the European, American, and Australian commodities markets. I would primarily be responsible for analyzing market data and investing the company assets in options and futures in the foreign commodities market.

Thus, I was questioned on the technical aspects of these in the interview. I was also questioned about Game Theory, which also included a game that questioned my decision-making capabilities with respect to the stock market.

Axxela Advisory Services LLP

Round 3 - Technical + HR Interview

The interview round evaluated my approach to the stock market, focusing on questions related to risk management and game theory. It assessed my mindset and understanding of key concepts within these domains.

Relevant Courses or Certifications

I had done a Finance Minor which taught me the basics. The courses which specifically helped me were FIN F311 - Derivatives and Risk Management and FIN F414 - Financial Risk Analytics and Management. Though at the time, FIN F414 was not a mandatory course for offshoot calculation, I had taken it up as an Open Elective.

The courses I had done in all were:-

1. FIN F212 - Fundamentals of Finance and Accounting
2. FIN F311 - Derivatives and Risk Management
3. FIN F313 - Securities Analysis and Portfolio Management
4. FIN F315 - Financial Management
5. FIN F414 - Financial Risk Analytics and Management
6. ECON F355 - Business Analysis and Valuation

Personal Experience

Sources of preparation -

I have been quite interested in finance from the start, so I had been regular with all my coursework from the Minor Programme in Finance. Thus, while preparing for the role, I primarily referred to my study material for the same.

Words of advice -

Focus on getting a good offshoot with your minor, and also regularly keep up with what's going on in the world, from an economic and financial perspective.

Latent View Analytics

Introduction

Interviewee - Abhirath Anand (2020A7PS0141P)

Job Role - Analyst (Level 01)

Number of offers made - 2

Selection Process

Branches open to - All

CG Cutoff - 7+

Recruitment process -

Round 1 - Aptitude + Coding Test

There was a logical reasoning segment, a basic statistics section at the high school or first-year level, and a fundamental data analysis portion.

Additionally, the coding section had two parts: one focused on theory, primarily centered around SQL, and the other involved programming. The programming questions covered both Python and SQL.

Round 2 - Technical Interview 1

The second rounds consisted of technical interviews with a specific focus on Python basics, particularly honing in on statistical libraries commonly used in Python.

Round 3 - Technical Interview 2

As for the third round, it was dedicated to SQL. The technical interviews delved into questions related to SQL, focusing on my understanding and applications of database querying.

Latent View Analytics

Round 4 - HR Interview

In the final round, they asked simple HR questions. They wanted to know about how well I work with others, if I'm a good team player, and what motivates me to apply for analytics role. The focus was more about my people skills and why I'm interested in the role.

Relevant Courses or Certifications

Both **MATH F113 - Probability & Statistics** and **MATH F432 - Applied Statistical Methods**, greatly helped me. All the other material I used to prepare for the role needed a thorough understanding of the basics of statistics, and these courses are very good for grasping the fundamentals in order to prepare better. Also, **CS F212 - Database Systems** helps with solidifying SQL knowledge skills.

Personal Experience

Sources of preparation -

I relied on fundamental Python skills as a starting point. Additionally, I found GeeksforGeeks to be quite useful for learning SQL concepts, which are essential for data analysis. Furthermore, I also deepened my understanding of statistics by watching Statquest on YouTube.

Words of advice -

Focus on preparing for SQL extensively, as the interview heavily emphasized SQL-related questions. Building a strong foundation in SQL fundamentals is key. Additionally, having a basic knowledge of Python should be sufficient.

Business Development

InfoEdge India **13**

Searce Inc. **15**

What is Business Development?

Business Development is a process aimed at growing a company and making it more successful. That can include seeking new business opportunities, building and sustaining connections with existing clients, entering strategic partnerships, and devising other plans to boost profits and market share.

Present and Previous Recruiters



InfoEdge India Limited

Introduction

Interviewee - Rahul Kiroriwal (2020B4PS1258P)

Job Role - Business Analyst

Number of offers made - 1

Selection Process

Branches open to - All

CG Cutoff - 6.5+

Recruitment process -

Round 1 - Online Assessment

The test comprised **two** segments, each demanding different skills, and strategies:

1. Aptitude segment - This lasted for 30 minutes
2. Coding segment - This lasted for 30 minutes. It entailed tackling **two** questions, one in Python and the other in SQL. This multifaceted assessment demanded not only rapid problem-solving abilities but also the astuteness to ensure accuracy amidst the time constraints imposed.

Essentially, they intended to test both our speed and accuracy

Round 2 - Technical Interview

I was interviewed by a Business Analyst. It began with my introduction and proceeded to discuss my projects involving Machine Learning and Python, particularly focusing on how I utilized them to create stock prediction models and simulate stock prices. One of the projects involved employing a Python library to automate chart generation.

Subsequently, the interviewer asked me to guesstimate questions such as, "Can you estimate the number of monthly active users on naukri.com?"

Info Edge India Ltd.

Round 3 - Technical Interview

The second round involved a senior business analyst and proved more challenging than the previous one. During this interview, the interviewer extensively delved into my projects and posed intricate SQL queries. The most demanding question presented was to '**Calculate the number of rows in different JOIN operations**'.

Round 4 - HR Interview

The HR round was easy and I was certain about my selection. He asked me about the company culture and my approach to solving different problems. Some of the questions:

- Why do you want to join the company?
- Why should we hire you?
- Why shouldn't we hire you?

Personal Experience

Sources of preparation -

To practice SQL, I watched the video series of Ankit Bansal (YouTube). It is a comprehensive source to learn and practice questions. For the Aptitude part, you can revise the PNS course.

Words of advice -

If you're aiming for an analyst role, it's crucial to possess sharp analytical skills. In addition to your academic studies, dedicate time to solving SQL questions. This will ensure that you'll have developed excellent speed and accuracy by the time you're ready for job placements.

Searce Inc.

Introduction

Interviewee - Fahad Qureshi (2020ABPS1067P)

Job Role - Business Development Representative

Number of offers made - 1 (more across other roles)

Selection Process

Branches open to - All

CG Cutoff - None

Recruitment process -

Round 1 - HR Round

This was a very standard HR Round, where we addressed my background, interests, hobbies, strengths, and weaknesses. I was also asked situation-based questions on the basis of my prior experiences, especially with PoRs.

Round 2 - Technical Interview I

- There were few basic guesstimate questions in the starting of the interview which could be easily solved if you think rationally and apply suitable frameworks to narrow down the guesstimates.
- One DSA question and some puzzles were also asked.
- The interviewer tested my decision-making ability, framework, and articulation of thoughts.

Searce Inc.

Round 3 - Technical Interview II

It was with the CEO and there were 6 candidates in the meeting. We were asked to frame a logical and analytical question based on a real-life situation. I had no idea that this was the question I would be asked, and had no expectation to be asked something along these lines. I framed my question based on handling a drunk friend when we all returned to campus following the semester break”.

He also asked us to develop pattern recognition questions. The CEO was mostly interested in the structure and in how we frame questions.

Personal Experience

Sources of preparation -

- For consulting part - “Case in Point” book
- For the software part - DSA and puzzles from GeeksforGeeks

These two resources would be sufficient.

Words of advice -

Do your best while preparing for the placements because right preparation gives confidence that ultimately brings a positive impact in the performance. It is quite important to relax before your interview so take enough sleep a day before and good luck!!

Searce Inc.

Introduction

Interviewee - Naman Mehta (2019B2A80981P)

Job Role - Client Ops Lead

Number of offers made - 1 (other roles saw more offers)

Selection Process

Branches open to - All

CG Cutoff - 6+

Recruitment process -

Round 1 - Online Assessment

This round was aimed at testing our logical reasoning and quantitative aptitude, as well as our English Language skills. The round in itself lasted for **30 minutes**.

As the role title suggests, this is a client-facing role. Therefore, the major emphasis lied on understanding our basic role fit by testing our written and oral communication skills, as well as our problem-solving aptitude.

Round 2 - Personal Interview

This round began with a conversation around my prior work experience, my hobbies, and interests. Then, they proceeded to test my problem-solving aptitude by asking me a few reasoning questions and situational aptitude-based questions.

Round 2 - Communication Round

This round intended to test my ability to express my thoughts, as well as my familiarity with the area of interest of the company, ie., cloud computing.

Searce Inc.

Round 4 - Group Discussion Round

The third round was a group discussion round. A question was given to gauge the thinking capability of the candidates and how discussions in a group can affect your thinking paradigm. The round ended with a discussion with the CEO of the company, where we learned a lot about what to expect from the role. The results were finalized and announced a little while after the round.

Relevant Courses or Certifications

EEE F411 - Internet of Things (Discipline/Open Elective)

This course taught me all the basic concepts of cloud computing required over the course of the process.

GS F221 - Business Communication

GS F223 - Introduction to Mass Communication

GS F245 - Effective Public Speaking

BITS F226 - Soft Skills for Professionals

These courses could be useful in honing your communication skills. This is necessary for all interview processes, not just this one. In fact, all these courses had separate interview-relevant modules.

Personal Experience

Sources of preparation -

While I did not specifically prepare for the role, my background with communication as well as with cloud computing greatly helped me in this process.

Words of advice -

This is a client-facing role, so be sure to convey both your comfort and your ability with communicating with individuals across various backgrounds, both tech and non-tech.

Consulting

**Boston Consulting
Group (BCG)**

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UnitedLex

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What is Management Consulting?

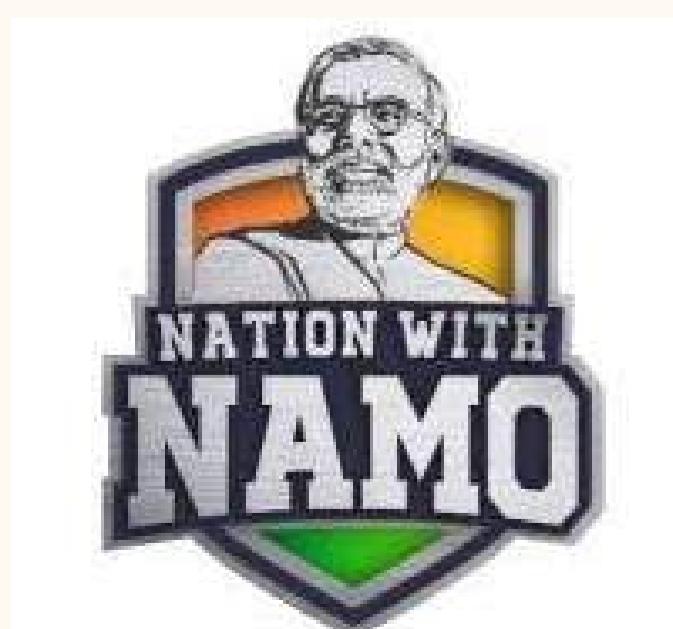
The practice of providing advisory services to different companies or organisations in order to improve their performance or assist them in achieving different organisational objectives.

Resources

Check out some training resources provided by the Placement Unit to get started on your preparation for these roles -

1. Placement Training Module for Consulting Interviews by the Career Development Committee, Placement Unit - [click here](#).
2. Videos and streams of past workshops organised by the Consulting Committee - [click here](#)

Present and Previous Recruiters



Boston Consulting Group

Introduction

Interviewee - Debaayus Swain (2019B2A30983P)

Job Role - Associate Consultant

Number of offers made - 2

Selection Process

Branches open to - All

CG Cutoff - 7+

Recruitment process -

The selection process comprised a resume shortlisting stage followed by three eliminatory case interview rounds, each structured as follows:

1. Introduction and Behavioral Questions (5 minutes): Candidates and interviewers introduce themselves and discuss behavioral questions.
2. Business Case Solving Interview (30 minutes): Candidates tackle a business case (e.g., profitability analysis, market entry strategy) and present solutions.
3. Question and Answer Session (Last 5 minutes): Candidates can ask questions about the company or role.

Candidates are evaluated on analytical skills, problem-solving abilities, and communication throughout.

Boston Consulting Group

Personal Experience

Sources of Preparation -

I used various casebooks to prepare for the role. Also, Victor Cheng's resources greatly helped me. On YouTube, the channels Case Interviews Cracked, and Aditya Agarwal were beneficial resources as well.

Words of advice -

Have a diverse profile, as this gives you the experience you need to solve different cases. Also, keep your CGPA high, as it gives you an edge in the later rounds of the selection process. Finally, be good at the things you do.

Introduction

Interviewee - Parikshit Vyas (2019B2A70691P)

Job Role - Associate

Number of offers made - 3

Selection Process

Branches open to - CS, EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

Preceded by a Resume Shortlist, this round comprised logical aptitude and behavioral questions, judging the candidate's mental reasoning skills.

Round 2 - Technical Interview

Since the job profile required me to deal with the patents of different companies and meet their requirements, it was a mixture of technology and consulting. Therefore, in this round, I was asked about core electronic concepts and my previous projects.

Round 3 - Technical Interview

This round consisted of a case study based on a patent. It tested my knowledge of the industry as well as my reasoning skills.

UnitedLex

Round 4 - HR Interview

Basic HR questions were asked, testing compatibility, teamwork, etc. A few questions were also asked on SDLC - Software Development Life Cycle.

Personal Experience

Prior Internship Experience -

I had my PS-1 at Purchasing & Parts, where I remotely worked as a Software Developer. I also had a Summer Intern at Societe Generale, also as a Software Developer.

Words of advice -

Focus on your academics. Do not let your CG fall down abysmally. Moreover, read about the company before going in the interview, and always be clear-headed and keep calm.

Core - Chemical

Ola Cabs

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Present and Past Recruiters



Hindustan Unilever Limited

ExxonMobil
TM



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Ola Cabs

Introduction

Interviewee - Arjun Singh Tyagi (2019B5A10841P)

Job Role - Chemical core

Number of offers made - 1

Selection Process

Branches open to - Chemical

CG Cutoff - 6.5

Recruitment process -

Round 1 - Online Test

It comprised 30 questions to be answered in 30 minutes. The questions were lengthy and GATE-level, covering the knowledge of thermodynamics, fluid mechanics, heat, etc. One has to be very well prepared for this online assessment because it is a computer-adaptive test, which means the difficulty level of the questions would adjust as per one's performance. Moreover, the questions are designed by the company itself, so there is no point in searching for them on the internet.

Round 2 - Technical Interview

After the test, 5 students were shortlisted out of the whole Chemical department and two rounds of interviews were conducted. It was a discussion based on my resume. Questions covered my ML projects, Chemical projects, and some core Chemical concepts.

Ola Cabs

Round 3 - HR Round

This round was pretty simple and discussed a series of HR questions like:

- What are your interests and hobbies?
- Where do you see yourself in the next 5 years?
- Are you planning to pursue an MBA or Higher Studies?

Relevant Courses or Certifications

1. CHE F213 - Chemical Engineering Thermodynamics
2. CHE F212 - Fluid Mechanics
3. CHE F241 - Heat Transfer

Personal Experience

Sources of preparation -

- I did ML projects which gave me a significant advantage over other candidates in the recruitment process.
- GATE preparation would suffice for the online test.

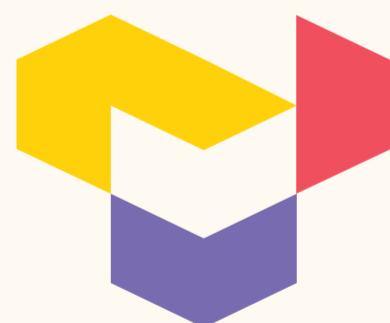
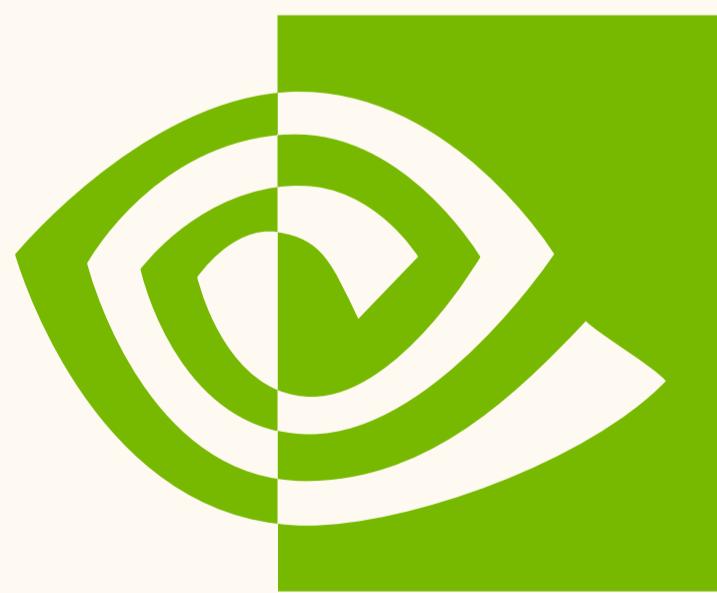
Words of advice -

- Build an all-rounder profile by focusing on Academics, Personality, and Extra-Curriculars.
- Try to maximize your CGPA as much as possible.
- Projects and Internships are rewarding as they project a good reflection on your resume. However, try to keep only those internships on your resume that are relevant to the role you are applying for.

Electronics Technology

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Present and Past Recruiters



tenstorrent



Micron

Introduction

Interviewee - Suyash Singh (2020A3PS1540P)

Job Role - ESSD Software

Number of offers made - 2

Selection Process

Branches open to - CS, EEE, ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

This was a normal coding test, testing the basics of Object-Oriented Programming and Data Structures and Algorithms. Any language could be used to solve DSA problems (C++, Java, Python etc). Knowledge of CS F213 - Object-Oriented Programming and CS F372 - Operating Systems is required.

Round 2 - Technical Interview

They asked us to explain our solutions for the questions asked in the OA. More questions on the same topics were asked as well.

Round 3 - HR Interview

This was a normal HR round consisting of some questions on my resume, as well as basic HR questions.

Micron

Relevant Courses or Certifications

The following courses proved to be useful over the course of the process:-

1. CS F211 - Data Structures and Algorithms
2. CS F213 - Object-Oriented Programming
3. CS F372 - Operating Systems

Personal Experience

Sources of preparation -

I primarily used LeetCode and InterviewBit to solve DSA problems. I used GeekforGeeks and InterviewBit resources to look up Object Oriented Programming and Operating Systems questions. The BITS coursework is also pretty useful for these. Always remember to go through interview experiences on GFG in depth before any interview.

Words of advice -

Just be clear with the basics. Believe in yourself and trust the process. Do a little research about the company before going to give the interview. Be one hundred per cent sure about your resume. Don't put random projects on your resume just for the sake of it know the ins and outs of those projects. Be confident and then with a little bit of luck you'll be able to make it.

Micron

Introduction

Interviewee - Shanmuga Balan S V (2019B5A30571P)

Job Role - SDET

Number of offers made - 1

Selection Process

Branches open to - CS, EEE, ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

This was an hour long OA, consisting of aptitude, programming and technical knowledge.

Round 2 - Technical Interview I

We were tested on our programming and technical knowledge. We were asked to present our screen to write code for short tasks, like implementing bubble sort, stack and linked list in C, etc.

We were asked to explain various concepts of CS F213 - Object-Oriented Programming as well.

Round 3 - Technical + HR Interview

The following questions were asked:

1. Draw schematic of a MOSFET
2. Explain the operating regions of MOSFET
3. Describe memory organization in a computer (L123 caches, RAM, ROM)
4. Describe NAND flash memory

Micron

Relevant Courses or Certifications

The most useful course for this process, especially from the perspective of revision, would be **CS/EEE/INSTR F215 - Digital Design**.

Some other useful courses offered by the Department of Computer Science are:-

1. CS F211 - Data Structures and Algorithms
2. CS F213 - Object-Oriented Programming

However, having not done these courses on campus, I can assure you that the questions asked only tested our fundamental awareness, and can definitely be answered without these courses as well.

Personal Experience

Sources of preparation -

- For Electrical Core Concepts - I merely used my class and lecture notes
- While I did not anticipate coding questions and only knew to answer them because of my fundamentals, some online resources like GeeksforGeeks would certainly be useful

Words of advice -

It is essential to be aware of the company, their vision, their values, and their work. All this information is available on their website. This will really help frame your answers in the HR Round, which is actually a differentiating point.

SEDEMAC Mechatronics Pvt Ltd

Introduction

Interviewee - Ishaan Sharma (2019B5A30559P)

Job Role - Design Engineer

Number of offers made - 1

Selection Process

Branches open to - A3 and A8

CG Cutoff - 6+

Recruitment process -

Round 1 - Online Assessment I

This round aimed at testing our foundations of:-

1. Digital Design
2. Computer Architecture
3. Computer Programming

Round 2 - Online Assessment II

While the topics covered were the same as Round 1, the questions asked were of a much higher difficulty level.

Round 3 - Technical Interview I

Tricky electrical/electronics engineering questions with primary focus on the basics. Some math questions were also asked.

Round 4 - Technical Interview II

Tricky electrical/electronics engineering questions with primary focus on Microelectronic Circuits and Analog and Digital VLSI Design.

SEDEMAC Mechatronics Pvt Ltd

Round 5 - HR Interview

Basic HR Questions were asked, like my skills, why I am a good fit for the job, am I willing to relocate, etc.

Relevant Courses or Certifications

1. EEE F111 - Electrical Sciences
2. EEE/INSTR F244 - Microelectronic Circuits
3. EEE F313 - Analog and Digital VLSI Design
4. CS F111 - Computer Programming
5. Math courses - MATH F111 (Mathematics I), MATH F112 (Mathematics II), MATH F211 (Mathematics III)

Personal Experience

Sources of preparation -

The lectures of the aforementioned courses were truly beneficial and valuable. They provided insightful knowledge and clarity on the subject matter. These courses enhance our understanding.

Words of advice -

Instead of skimming through everything, focus on mastering the basics of important topics. It's like building a strong foundation for a house; once you have that, you can tackle anything with confidence and understanding.

SEDEMAC Mechatronics Pvt Ltd

Introduction

Interviewee - Sukriti Phogat (2020A7PS0071P)

Job Role - Engineer, Embedded Software

Number of offers made - 1

Selection Process

Branches open to - CS, EEE, ENI

CG Cutoff - 6+

Recruitment process -

Round 1 - Online Assessment I

This round consisted of 5 questions based on Data Structures and Algorithms. Most of them were easy.

Round 2 - Technical Interview I

This round was aimed at testing my fundamentals in Data Structures and Algorithms.

Round 3 - Technical Interview II

This round had two parts. The first part was about designing a data compression algorithm, while the second part covered some simple questions based on concepts covered in CS F372 - Operating Systems. Non-technical questions were asked about my group project, which was mentioned on my CV.

SEDEMAC Mechatronics Pvt Ltd

Round 4 - HR Interview

In the final 15-minute HR round, I faced general questions, including the classic "Why should we hire you?" This question aimed to assess my suitability for the role based on self-awareness. It's a pivotal moment in the interview process, allowing candidates to demonstrate their enthusiasm and relevant experiences concisely.

Relevant Courses or Certifications

1. CS F211 - Data Structures & Algorithms
2. CS F372 - Operating Systems
3. CS F303 - Computer Networks
4. CS F213 - Object Oriented Programming
5. CS F212 - Database Systems

Personal Experience

Sources of preparation -

LeetCode is an online platform for coding interview preparation. It is advisable to start your preparation on LeetCode as soon as possible.

Words of advice -

Before the interviewer instructs you to do so, it's advisable to perform a dry run of your code. This means executing your code mentally or on paper, without actually running it on a computer, to check for logic errors and potential issues. Additionally, it's beneficial to propose additional test cases beyond what may have been initially provided.

Signalchip Innovations

Introduction

Interviewee - Kshitij Ravi Sanghi (2020A3PS0401P)

Job Role - Design Engineer

Number of offers made - 1

Selection Process

Branches open to - EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

There were three broad topics covered:-

1. Digital Design
2. Coding
3. Computer Architecture

Notably, there were some standard questions based on the concept of Static Time Analysis.

Round 2 - Technical Interview I

Riddles were asked similar to those available in YouTube channels like TedEd. Also, questions from concepts covered in EEE/INSTR F215 - Digital Design were also asked.

There was a lot of focus on number systems, a question on 2's complement of a negative fractional number.

Signalchip Innovations

Round 3 - Technical Interview II

Static timing analysis question – this started off from basics of STA and the most basic STA question that is taught. Then he went on to add up to it and covered different cases, though these cases are also something that is available online and can be practiced.

Other questions on Digital Design, like An array of $2n+1$ 32bit nos is available with n pairs of identical nos and one unique number, find the unique number using digital logic? Ans: use XNOR gates since all the $2n$ nos will nullify and you will your unique number

Relevant Courses or Certifications

1. EEE/INSTR F215 - Digital Design
2. CS F342 - Computer Architecture

Personal Experience

Sources of preparation -

1. DD : I used Morris Mano and the BITS course. To revise, I utilised the question banks available in Google Drive.
2. STA: YouTube lectures

Words of advice -

Lots of focus in basics and how one approaches the problem. Seldom did I arrive the answer at one go but that's alright. Be vocal in what you are doing, its important the interviewer knows your thought process, tell him even the most basic information while solving. Try building your answers from scratch rather than rote learnt formulas or tricks.

Tenstorrent

Introduction

Interviewee - Nikita Tawani (2020A8PS1803P)

Job Role - Engineer

Number of offers made - 1

Selection Process

Branches open to - CS, EEE, ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Written Assessment

Basic Digital Design, coding questions and computer architecture were asked. We were also asked to write code for VLSI for some circuits. Shortlisting was done based on this round.

Round 2 - Technical Interview I

Coding question based on sorting. DD questions based on FIFO was asked.

Round 3 - Technical Interview II

Questioned on a puzzle. They also taught a concept and asked questions on that.

Round 4 - Technical + HR Interview

It was taken just after the third round by the head of Indian team. Asked DD problem based on Sequence detector and asked to draw circuits. And HR questions like can you relocate, etc

Tenstorrent

Relevant Courses or Certifications

The following Phoenix courses are extremely helpful:

1. EEE/INSTR F215 - Digital Design
2. EEE/INSTR F313 - Analog & Digital VLSI Design
3. EEE/INSTR F341 - Analog Electronics
4. CS F342 - Computer Architecture

Personal Experience

Sources of preparation -

Used ET Placement drives where seniors gave interview questions. Could understand the general topics asked. These particularly helped me revise the major concepts of computer architecture, which were asked as well in the process.

Words of advice -

Questions are easy if concepts are strong. If internship is in different role from Digital, you should keep revising these concepts and keep DD strong. Since CompArch is not a CDC, take it as a DEL. Company was flexible with coding language so basic concept like loops should be known

Texas Instruments India Pvt. Ltd.

Introduction

Interviewee - Ananya Singh (2020A8PS1804P)

Job Role - Analog Engineer

Number of offers made - 2

Selection Process

Branches open to - EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

The test consisted of basic questions from my CDCs, mainly

1. EEE/INSTR F313 - Analog and Digital VLSI Design and
2. EEE/INSTR F243 - Signals and Systems

Round 2 - Technical + HR Interview

The duration of the interview varied from 1 to 2 hours. They asked a lot of questions about the basics. No advanced concepts were asked. They had also shared a document containing practice questions 30 min before the interview.

The major part of the interview was about RLC circuits which we studied in Electrical Sciences. The Time domain equations, some questions were on operational amplifiers, layouts which we study in ADVD, channel length, feedbacks, and current mirrors, they knew that in ADVD we are given assignments so they asked about it. They also asked one question about Signal Systems from Nyquist Rate and Aliasing. At the end of the Interview, they asked one question on probability.

Texas Instruments India Pvt. Ltd.

Relevant Courses or Certifications

The following Phoenix courses are extremely helpful:

1. INSTR F244 - Microelectronic Circuits
2. INSTR F313 - Analog & Digital VLSI Design
3. INSTR F341 - Analog Electronics
4. INSTR F243 - Signals & Systems

Personal Experience

Sources of preparation -

I delved into Electrical Sciences notes, watched Chembian T lectures on YouTube, and reviewed Analog Electronics lecture notes, focusing on the basics. These were more than sufficient in helping me prepare.

Words of advice -

Just be calm in the interview. It's okay if you don't remember a topic. If you know anything around that topic, just tell it or explain it to the interviewer, they will help you. Don't keep your thoughts in mind, when you see the question share your approach with the interviewer, they will guide you ahead if you are stuck. Never say "I can't solve this". Just give yourself some time, you can also ask for hints from the interviewer.

Texas Instruments India Pvt. Ltd.

Introduction

Interviewee - Khushi Bakliwal (2019B2A81018P)

Job Role - Digital Engineer

Number of offers made - 1

Selection Process

Branches open to - EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

The test consisted of basic questions from my CDCs. This mainly touched upon:

1. EEE/INSTR F313 - Analog and Digital VLSI Design and
2. EEE/INSTR F214 - Digital Design.

Round 2 - Technical + HR Interview

This round began with a discussion around my resume and projects. They were particularly interested in my Study Project (SOP), which pertained to the design of an MAC unit.

This was followed by technical questions pertaining to electrical engineering concepts. They spent extensive time discussing the concept of Static Time Analysis.

Texas Instruments India Pvt. Ltd.

Relevant Courses or Certifications

The following Phoenix courses are extremely helpful:

1. INSTR F215 - Digital Design
2. INSTR F313 - Analog & Digital VLSI Design
3. INSTR F341 - Analog Electronics

Personal Experience

Sources of preparation -

I predominantly relied on the comprehensive notes taken during my classes as my primary source of study material.

Words of advice -

- Having a solid understanding of fundamental concepts is often adequate or even preferable.
- A strong CGPA consistently provides you with a competitive advantage. Therefore, it is advisable to aim for a CGPA of at least 8.0, as this ensures that during placement opportunities, you can allocate more of your energy and time towards focused preparation. By maintaining a high CGPA, you enhance your prospects for securing desirable employment opportunities. Thus, prioritize academic excellence to leverage your potential for future success.

Texas Instruments India Pvt. Ltd.

Introduction

Interviewee - Aditya Krishna Rao (2019B3A30576P)

Job Role - Embedded Software Engineer

Number of offers made - 1

Selection Process

Branches open to - CS, EEE, ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Written Assessment

1 written test which had 20 aptitude and 10 CS fundamentals-related questions based on Time Complexity, Sorting Algorithms, Operating Systems, and DSA. Aptitude questions required speed and high accuracy since they selected very few for interviews.

Round 2 - Technical + HR Interview

1 interview round based on projects, DSA, OS, C Programming, and OOP. OS-related questions on kernel, scheduling algorithms, deadlock, starvation, interrupts, etc.

C-related questions on creating a linked list, deleting and inserting a node, memory allocation, etc.

Basic OOP questions based on the 4 pillars and their use in the code.

I had 2 projects based on DSA and ML on my resume and both were questioned thoroughly starting from their intuition, tech stack, working, etc.

Texas Instruments India Pvt. Ltd.

Relevant Courses or Certifications

1. CS F211 - Data Structures & Algorithms
2. CS F372 - Operating Systems
3. CS F303 - Computer Networks
4. CS F213 - Object Oriented Programming
5. CS F212 - Database Systems

Personal Experience

Sources of preparation -

DSA from LeetCode and GFG

GFG Previous year Experiences are very helpful for any role

OOP and OS course slides

Words of advice -

The interviewers will constantly try to question you but being confident in your answers is important. A lot of the time the question asked will be vague on purpose and it is important to clarify what is being exactly asked. Brush up on your projects thoroughly since almost any interview will start with this and it is important to not fumble it.

IT & Data Science

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sprinklr

Addverb Technologies

Introduction

Interviewee - Vedant Tripathi (2019B5A30582P)

Job Role - GET - Software

Number of offers made - 1

Selection Process

Branches open to - CS, EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

Basic C++ coding questions and the concepts of

1. CS F372 - Operating Systems and
2. CS F213 - Object-Oriented Programming

were thoroughly examined

Round 2 - Technical Interview

1 coding question related to string manipulation was asked. The difficulty level of the question was easy to medium.

Round 3 - Techno-Managerial Interview

The third round was with the Manager, in which I faced questions related to my projects and basic OOP. He also tested me on the basis of my reactions to some behavioral situations, in order to gauge my patience, virtues, and team-playing attitude.

Addverb Technologies

Round 4 - CTO Round

Post 3rd round, the selected candidates were interviewed by the CTO of the company. He asked me rapid-fire conceptual questions based on concepts covered in:

1. CS F211 - Data Structures and Algorithms
2. CS F213 - Object-Oriented Programming

Relevant Courses or Certifications

1. CS F211 - Data Structures and Algorithms
2. CS F213 - Object-Oriented Programming
3. CS F372 - Operating Systems

Personal Experience

Sources of preparation -

I relied on GeeksforGeeks and InterviewBit to prepare for interviews. For my general practice, I relied on Codeforces.

Words of advice -

Be clear with the basics and have a good grasp over the CS fundamentals like OOPs, OS, and DSA concepts.

Amdocs

Introduction

Interviewee - Kathan Kalpesh Patel (2020A7PS0058P)

Job Role - Associate Software Engineer

Number of offers made - 4

Selection Process

Branches open to - All branches

CG Cutoff - 6.5

Recruitment process -

Round 1 - Coding Test

It was an online assessment round that checked our coding skills.

Round 2 - Technical Interview

Post coding round, I was called to the Placement Office for an online interview. In this stage We only had to keep our basics clear i.e. OOPs concepts, Database Relation concepts, etc. There were no restrictions on the languages or software required for the role.

Round 3 - HR Interview

This was the final stage of the recruitment process to check the employee compatibility.

Relevant Courses or Certifications

1. CS F211 - Data Structures & Algorithms
2. CS F372 - Operating Systems
3. CS F303 - Computer Networks
4. CS F213 - Object Oriented Programming
5. CS F212 - Database Systems

Personal Experience

Sources of preparation -

- OOP slides
- DBS
- Coding problems

These are enough for preparation.

Words of advice -

Never let go of your fundamentals and be sure to stay thorough with them. BITS courses are very helpful to that regard. Besides that, stay consistent with your practice and effort, especially for competitive programming.

Introduction

Interviewee - Hrishikesh Harsh (2020A7PS0313P)

Job Role - Engineer role

Number of offers made - 1

Selection Process

Branches open to - All branches

CG Cutoff - 6

Recruitment process -

Round 1 - Online Assessment

It was an online test that demanded a good amount of knowledge of Probability, Mathematical Reasoning, Logical Reasoning, C-syntax questions and 2 Coding questions (to be done only in C language).

Round 2 - Technical Interview

This round was full of technical questions starting from my resume and projects till theoretical concepts. It lasted for 35 minutes.

Round 3 - Managerial Interview

This was a tougher round than the previous one, covering the technicalities of core CS concepts. It lasted for 1 hour 15 minutes.

Aptiv

Round 4 - HR Interview

This round was completely HR based and lasted for 30 minutes.

Relevant Courses or Certifications

1. CS F211 - Data Structures & Algorithms
2. CS F372 - Operating Systems
3. CS F303 - Computer Networks
4. CS F213 - Object Oriented Programming
5. CS F212 - Database Systems

Personal Experience

Sources of preparation -

I was decent enough in C because of the BITS curriculum. I also brushed up my fundamentals of Compiler Construction, Operating Systems, Database Systems and DSA.

Words of advice -

- Revise and brush up your CS concepts properly before any interview.
- Keep a level head in the online assessment as well as Interviews.

Capital One

Introduction

Interviewee - Tanish Mittal (2019B5A70658P)

Job Role - Software Engineering

Number of offers made - 5

Selection Process

Branches open to - CS, EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

They divided people into breakout rooms and gave us tasks. They were mostly low-level design questions. I was asked to make basic functions for a text editor. There was a basic coding question that required sorting algorithm knowledge. I had the option from C++/Java/Python to write my code in.

Round 2 - Technical Interview

In the second round. the interviewer discussed the code written in the previous round and asked us to explain it.

Round 3 - HR Interview

This round was like a managerial round. I was asked about resume projects and some HR questions. They said they wanted to expand the ML team and took a higher interest in ML projects.

Capital One

Relevant Courses or Certifications

1. CS F211 - Data Structures and Algorithms
 2. CS F212 - Database Systems
- are both incredibly essential

Personal Experience

Sources of preparation -

I used Geeksforgeeks and InterviewBit for preparations. I also spoke to seniors and utilised online resources to brush up on the kind of questions asked in past interviews.

Words of advice -

Practice low-level coding questions. I did not expect to encounter them, and had I been more thorough and quick with my response, I am certain I would have done better than I did in the first round.

Cenizas Labs

Introduction

Interviewee - Sarthak Arora (2020A7PS0060P)

Job Role - Software Engineer

Number of offers made - 5 (more for their Hardware Engineer role)

Selection Process

Branches open to - CS

CG Cutoff - 7.5+

Recruitment process -

Round 1 - Online Assessment

This OA had 3 parts:-

1. Logical Reasoning
2. Quantitative Aptitude
3. Coding - Here, we were tested on our fundamentals of Object-Oriented Programming, as well as Data Structures and Algorithms.

Round 2 - Technical + HR Interview

They expected knowledge of frontend and backend frameworks like Django, Reactjs, Nodejs, etc. Experience with LLMs was cherry on the top. They also asked questions related to Database Management. They also questioned me on my resume, inquiring about my projects and internships.

Cenizas Labs

Relevant Courses or Certifications

The following CS courses are extremely helpful:

1. CS F211 - Data Structures & Algorithms
2. CS F372 - Operating Systems
3. CS F303 - Computer Networks
4. CS F213 - Object Oriented Programming
5. CS F212 - Database Systems

Personal Experience

Sources of preparation -

Apart from CS Course Slides to revise fundamentals, my previous experience with projects and internships greatly helped me. I had been good at DSA from the get-go and was reasonably experienced with development too, due to my work in the Department of Visual Media.

Words of advice -

My prior experience with web development helped me to get this role, but that was because, luckily, a high-paying company which required the exact skillset which I had came for placement.

But for the majority of people, DSA is the thing to go for. For this particular role, development made me get through, but that doesn't mean one should completely drop DSA and focus only on Dev.

It's more about keeping yourself ready with whatever the interviewer throws at you. For a majority of cases, it's DSA, while for a few, it's dev.

Ideaforge Technology Pvt. Ltd.

Introduction

Interviewee - Nikunj Ashish Mehadia (2019B3A70343P)

Job Role - Engineer I in R&D Software Department

Number of offers made - 4

Selection Process

Branches open to - CS, EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

The OA contained some aptitude and logical reasoning questions. It was a 1.5hr duration test.

Round 2 - Technical Interview

Questions from all core subject of CS were asked like questions from OOP (around 8-10 questions and also from design patterns), DSA (Rotate Matrix problem to code, binary trees, maps implementation etc.), computer networks (regarding socket programming), PNS (regarding Gaussian function and t-distribution function), Bias vs Variance, OS (semaphore, scheduling algorithms).

Round 3 - HR Interview

This round lasted for almost 12-15 minutes, with basic HR questions being asked.

Ideaforge Technology Pvt. Ltd.

Relevant Courses or Certifications

1. CS F211 - Data Structures and Algorithms
2. CS F213 - Object-Oriented Programming
3. CS F303 - Computer Networks
4. CS F372 - Operating Systems
5. MATH F112 - Probability and Statistics

Personal Experience

Sources of preparation -

I mainly relied on my notes from college classes as well as LeetCode. Learning DSA in any one of the conventional programming languages should be sufficient.

Words of advice -

Please focus on understanding CS courses from the theoretical and conceptual lenses as well. I say this primarily because DSA and competitive coding prep alone would not have been sufficient to crack the technical rounds.

IMC Trading

Introduction

Interviewee - Tanveer Singh (2020A7PS0084P)

Job Role - Software Engineer

Number of offers made - 1

Selection Process

Branches open to - CSE Single degree & Dual-degree

CG Cutoff - 8+

Recruitment process -

Round 1 - Online Assessment

After resume shortlisting, there was an online assessment test comprising 2 problems (medium to high level) based on Data Structures and Algorithms.

Round 2 - Interview I

Before round 1, we were told to choose between one of the two languages - C++ or Java. Further rounds, we were tested on our chosen language.

Round 2 extensively tested my theoretical knowledge of C++ (the language I chose and was comfortable to proceed with).

Round 3 - Interview II

Round 3 was a standard HR interview. The interviewer was interested in my motivation to join the company and discussed some of my hobbies and extra-curriculars.

IMC Trading

Round 3 - Interview III

It was typically a System-Design round, I was supposed to design algorithms for a problem statement and analyze the time complexity of every single step of the algorithm. It was similar to our academic course “Design and Analysis of Algorithms”. Next was the Implementation part, the goal was to implement the designed algorithms and pass the test cases as much as we could.

Relevant Courses or Certifications

1. CS F211 - Data Structures & Algorithms
2. CS F372 - Operating Systems
3. CS F303 - Computer Networks
4. CS F213 - Object Oriented Programming
5. CS F212 - Database Systems

Personal Experience

Sources of preparation -

I started competitive coding right from my second year. I was consistent in solving coding problems on Codeforces (International Master). So, the recruitment process was not that difficult for me as it was for others.

Words of advice -

- Having a good CGPA is always helpful. Even though the official cutoff set up by IMC was 8, in the interviews they put a lot of pressure on academics. So, if you are targeting trading companies, try to have at least 9 CGPA (9.5 is perfect 😊).
- You need to build a strong foundation in DSA that happens through competitive coding.

National Payments Corporation of India (NPCI)

Introduction

Interviewee - Debjit Kar (2020A7PS0970P)

Job Role -SDE

Number of offers made - 4

Selection Process

Branches open to - CS

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

The OA was a 2 hour long test comprising of English, logic, and coding questions. It was in four stages, each stage harder than the last. The coding questions revolved around Machine Learning, Data Science, and Database Systems.

Round 2 - Technical + HR Interview

After the coding round, 6 people were shortlisted and then there was one round of interview - It started with resume discussion, then I was asked questions on Operating Systems, Database Systems, as well as Data Structures and Algorithms.

National Payments Corporation of India (NPCI)

Relevant Courses or Certifications

1. CS F211 - Data Structures and Algorithms
2. CS F212 - Database Systems
3. CS F213 - Object-Oriented Programming
4. CS F303 - Computer Networks
5. CS F342 - Computer Architecture
6. CS F372 - Operating Systems
7. BITS F464 - Machine Learning

Personal Experience

Sources of preparation -

I used LeetCode, GeeksforGeeks and InterviewBit to prepare for everything. The slides of CS CDCs were also pretty helpful in covering the basics.

Words of advice -

Just study basics of everything in CS thoroughly and practice as much DSA as possible. There's no "good time" to start. More importantly, don't panic and be confident while answering.

Ola Cabs

Introduction

Interviewee - Sujay Rastogi (2019B4A70741P)

Job Role - Statistics

Number of offers made - 2 (1 more for ML)

Selection Process

Branches open to - All

CG Cutoff -6

Recruitment process -

Round 1 - Technical

The round was entirely technical, focused on my resume and some basic mathematical concepts like Linearity property, Parametric, Polar, Implicit and Explicit equations.

One Segmentation question was asked - “How would you identify objects of different colors in an image using graphs?”

Round 2 - Technical

He gave me multiple scenarios of data and I pulled the discussion into data basis, networking, and merged feature engineering. Questions:

- How would you build a highly scalable model so that it can reach out to the entire world?
- Since data is dynamic and always upcoming, how would you implement version control on the data?
- Discussion on peer-to-peer networking

Ola Cabs

Round 3 - HR round

It was a proper HR round conducted on Zoom. Generic questions were asked in the interview like:

- Tell me something about yourself.
- What do you know about Ola?
- Why do you want to join Ola?
- Education and experience

Relevant Courses or Certifications

CS F213 - Object-Oriented Programming, and particularly, the study material disbursed for the course, were quite helpful.

Personal Experience

Sources of preparation -

- LeetCode and Striver Sheet for DSA
- OOP course slides and tests are decent enough
- Textbook for databases
- SQL Lab sheets

Words of advice -

- Personalize your resume to the role and the company.
- Research the company deeply.
- Don't be discouraged by just one setback, keep striving because you will get ample amount of opportunities in BITS Pilani.

Palo Alto Networks

Introduction

Interviewee - Aviral Omar (2019B3A70411P)

Job Role - Associate Software Engineer

Number of offers made - 2

Selection Process

Branches open to - CSE, EEE, ENI

CG Cutoff - 7.4

Recruitment process -

Round 1 - Online Test

The level of questions was not very tough. However, clarity of core CS concepts was important. What the interviewers focus more on is a matter of chance. You can expect more focus on Computer Networks obviously because it is a cybersecurity company.

Round 2 - Technical Interview

Mostly focused on a high-level design question. Most freshers do not have experience or knowledge in this domain, so having system design knowledge can set you apart. I was able to steer the question more towards backend API development and deployment which I had gained some knowledge in from my summer internship. Instead of trying to prove my knowledge, I focused more on having a productive discussion with the interviewer on my suggestions, and their drawbacks and also clarifying the feedback I received from him. Thereafter, he asked me some simple questions based on OOP concepts.

Palo Alto Networks

Round 3 - Technical + Behavioral

The second round started with some amount of grilling on the resume. Since I had mentioned my compiler project on my resume, I was grilled on it and related concepts in OS and PPL as well. Lots of emphasis on the memory model used by programming languages. Where the data is stored actually, how stack and heap work, and concepts like paging, fragmentation, and static & dynamic allocation.

Relevant Courses or Certifications

The following courses provide a solid foundation so if you have the opportunity to take them, I suggest doing so. They might help during PS2 allotments as well:

1. CS F211 - Data Structures and Algorithms
2. CS F213 - Object-Oriented Programming
3. CS F303 - Computer Networks
4. CS F372 - Operating Systems

Personal Experience

Sources of preparation -

- DSA - InterviewBit questions sufficed
- OOP - I went through standard interview questions.
- OS - You can go through Vishvadeep Gothi's playlist on YouTube.
- CN - Slides are actually quite helpful

Words of advice -

My only advice is to be honest with yourselves during the interview. Have confidence in yourself and your preparation and try to relax before your interview. I can promise that your composed demeanor will take you further than your preparation.

PhonePe

Introduction

Interviewee - Satvik Sinha (2020A7PS0993P)

Job Role - Software Engineer

Number of offers made - 1

Selection Process

Branches open to - All branches

CG Cutoff - 6+

Recruitment process -

Round 1 - Online Assessment

90 minutes were allotted to solve 4 questions based on DSA. This was followed by three rounds of interviews.

Round 2 - Technical Interview I

We were questioned on our approaches to solve the various questions in the OA and how we felt that they were better than other methods. Moreover, other questions on DSA were also asked.

Round 3 - Interview II

This round focused heavily on DSA, as well as Graph Theory. Questions were asked based on these topics and we were expected to code out our solutions.

PhonePe

Round 3 - HR Interview

The last round was a basic HR round. They questioned my motivations for the role, why PhonePe specifically, etc.

Relevant Courses or Certifications

The following CS courses are extremely helpful:

1. CS F211 - Data Structures & Algorithms
2. CS F372 - Operating Systems
3. CS F303 - Computer Networks
4. CS F213 - Object Oriented Programming
5. CS F212 - Database Systems

Questions are frequently asked from these topics in interviews.

Personal Experience

Sources of preparation -

The DSA preparation was mostly done with the help of LeetCode and Interviewbit. I revised the core CS concepts like OS, Computer Networks, OOP, and DBMS by going through the course slides.

Words of advice -

Have a strong grip on DSA and your core CS concepts. Moreover, be extremely proficient in one or two coding languages at least, since you are expected to code out your answers in the interviews.

Plex Labs

Introduction

Interviewee - Kshitij Tandon (2020A7PS0972P)

Job Role - Software Engineer

Number of offers made - 1

Selection Process

Branches open to - CS, EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Aptitude and Guesstimate round

Round 2 - Verbal Interview cum Test round

This round specifically was to check the communication skills of the interviewee.

Round 3 - Case Study round

Round 4 - Interview

We had a good chat about things like the case study round, really digging into the details of the scenario and bouncing around ideas for solutions. And of course, they went through my resume with a fine-tooth comb, talking about my experiences and skills.

Plex Labs

Personal Experience

Sources of preparation -

- Resources given by PU for consulting roles
- Solve some case studies from IIM books

Words of advice -

- Just be confident through out the process.
- Don't do calculation mistakes while solving case studies.

Samsung Research Institute Delhi

Introduction

Interviewee - Akshat Agrawal (2020A7PS0994P)

Job Role - Software

Number of offers made - 3

Selection Process

Branches open to - CS, EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

Preceded by Resume Shortlisting, a 3 hour long test took place in IPC with only one question on DSA. It had 50 test cases, and it was mandatory to solve all of them.

Round 2 - Technical Interview

I was asked about coding and theoretical questions based on CS fundamentals, like DSA and OOP.

Round 3 - HR Interview

I was mainly asked about my interests. They were looking for machine learning because the company had a project related to that.

Samsung Research Institute Delhi

Relevant Courses or Certifications

1. CS F211 - Data Structures and Algorithms
2. CS F212 - Database Systems
3. CS F213 - Object-Oriented Programming
4. CS F372 - Operating Systems

Personal Experience

Sources of preparation -

The course slides of CS CDCs were good enough to understand the concepts. Wherever they fell short, I used Geeksforgeeks. Moreover, Striver's DSA sheet was excellent for practicing.

Words of advice -

The coding round is not that difficult, so do not overthink while solving the questions. Keep a good demeanour in the interviews

Start practicing DSA from LeetCode quite in advance and maintain a good CGPA.

Searce Inc.

Introduction

Interviewee - Samriddha Sinha (2020A7PS0021P)

Job Role - Cloud Reliability Engineer

Number of offers made - 2

Selection Process

Branches open to - All branches

CG Cutoff - 7+

Recruitment process -

Round 1 - Aptitude Test

It was a rapid-fire aptitude round testing your mental ability. There were no coding questions but 40 aptitude questions which were required to be answered in just 15 minutes. Post this, 3 Interview rounds were scheduled.

Round 2 - Interview 1

It was a general interaction like you expect a consulting interview to go. I was asked to solve some guesstimates like “How many Misal pav (food item) are sold in Pune?”. They look for articulation and thought process rather than the result.

Round 3 - Interview 2

This round focused on my projects and a general overview of my resume. No hard-line technical questions were asked like coding.

Searce

Round 3 - Interview 3

Post-interview round 2, shortlisted candidates were called for an interview with the CEO (on Zoom) which was a unique experience for me. The interview lasted for around 2 hours. Some of the questions:

- Give your introduction
- Who are your top 3 inspirations?
- What improvements would you like to see in yourself?
- The CEO asked me to frame a logical question to be asked to another interviewee. And, I had to evaluate the response of that interviewee.

Relevant Courses or Certifications

CS courses like DSA, OOP, OS, and CN provide a solid foundation so if you have the opportunity to take them, I suggest doing so. They might help during PS2 allotments as well.

Personal Experience

Sources of preparation -

Since the role was new, I did not specifically prepare using any kind of resources for cloud engineering.

Words of advice -

- Keep striving hard and upskilling yourself
- Trust yourself and the process
- The best thing you can wear is CONFIDENCE!!

Singularity Dynamics

Introduction

Interviewee - Kartik Agrawal (2019B1A30608P)

Job Role - Verification Engineer R&D

Number of offers made - 1

Selection Process

Branches open to - CS, EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Resume Shortlisting

7 candidates were shortlisted for the interview.

Round 2 - Interview with CEO

The interview was focused on core principles of computer architecture, mainly related to pipelining and out-of-order execution. The other half of the interview consisted of questions to check the leadership qualities, dedication, problem-solving approach, etc.

Computer Architecture is the main subject to focus on. A good grasp of Verilog and Digital Design might also prove beneficial.

Singularity Dynamics

Relevant Courses or Certifications

I would recommend watching Onur Mutlu Sir's lectures on computer architecture. Important concepts to focus upon: Pipelining and Hazards, Out of Order Execution, Register Renaming, Tomasulo Algo.

For Verilog, refer to Samir Palnitkar's book, or there is also one NPTEL series by Indranil Sengupta. Morris Mano is enough for Digital Design.

Personal Experience

Sources of preparation -

- Geeksforgeeks,
- InterviewBit
- Codeforces

Words of advice -

My current role is focused on R&D related to computer architecture, in which you would get to study a lot of computer architecture principles using different processors. If this interests you after doing any course on computer architecture, then you can definitely apply for such roles. To prepare for these roles, you should be well-versed in Verilog and digital design, as most of the concepts go hand in hand.

Introduction

Interviewee - Shreyas Ketkar (2020A7PS0075P)

Job Role - Full-Stack Software Engineer

Number of offers made - 1

Selection Process

Branches open to - All branches

CG Cutoff - 7

Recruitment process -

Round 1 - Online Assessment

It was an online test comprising 2 problems (medium level) based on DSA and some MCQs on Java.

Round 2 - Group Discussion

The candidates who cleared the test were then divided into sub-groups. And, we were instructed the code of conduct for the discussion round. The topic of my group was “Online Vs Offline Education”.

Round 3 - Technical Interview I

The interview was inclined towards discussion on my resume and projects. Moreover, the interviewer gauged my knowledge of DSA and SQL.

Round 4 - Technical Interview II

This round was completely based on CS fundamentals. The interviewer asked me about Object Oriented Programming and Operating Systems.

Round 5 - HR interview

Relevant Courses or Certifications

1. CS F211 - Data Structures & Algorithms
2. CS F372 - Operating Systems
3. CS F303 - Computer Networks
4. CS F213 - Object Oriented Programming
5. CS F212 - Database Systems

Personal Experience

Sources of preparation -

I started competitive programming right from my second year and regularly practiced on platforms like Codeforces and CodeChef. Before the placements, I started practicing on LeetCode. So, I was comfortable with DSA. For Operating Systems and Database Systems, I watched the YouTube series of Love Babbar. Object-Oriented Programming - I think the course content is good enough.

Words of advice -

- Start practicing from 2nd year itself.
- Explore domains in IT like ML, Blockchain, Web-dev, etc.
- Having a good project is quite helpful in the interview.
- Be a little bit humorous in the interviews.

SoftwareAG

Introduction

Interviewee - Shreekar Puranik (2020A7PS0035P)

Job Role - SDE

Number of offers made - 4

Selection Process

Branches open to - CS, EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

There were coding questions, along with MCQs on CS fundamentals. One important was that they did not give C++ as an optional language to write code in, code could only be written in Java/Python/C.

Round 2 - Technical Interview I

I was asked to code on terminal, followed by some puzzles. After this, I was grilled on my resume as well as my code.

Round 3 - Technical Interview II

The second interview was based on Netflix system design, to be answered solely based on OOP. It required a lot of core Java concepts. I was also asked about the Technical Expertise/Skills section of my resume.

Software AG

Round 3 - HR Interview

This round focused on some basic HR questions and Geeksforgeeks puzzles.

Relevant Courses or Certifications

1. CS F211 - Data Structures and Algorithms
2. CS F213 - Object-Oriented Programming
3. BITS F311 - Image Processing
4. CS F401 - Multimedia Computing

Personal Experience

Sources of preparation -

I used Interviewbit and LeetCode for DSA, and Knowledge Gate & Interviewbit/Geeksforgeeks articles for CS fundamentals. GFG is also great for puzzles (Magic pond, bulb switch and other similar types).

Words of advice -

Focus on aptitude and technical (core) questions, as that will help you sail through OA sections and puzzles in the interview. Also DSA prep is a must, and a lot of imagination/creativity in the last(HR) round is absolutely critical.

Sprinklr

Introduction

Interviewee - Partha Sarathi Purkayastha (2020A7PS0043P)

Job Role - Product Engineer

Number of offers made - 8

Selection Process

Branches open to - CS, EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

It had 3 Qs, one had faulty test cases so just left it at Brute Force, The other two were do-able. (Fair warning, for Sprinklr the answers can be found online - CodeChef, Codeforces and Leetcode, and since they don't really check Plag thoroughly, often this freedom is abused by the test takers. Make what you will of this information.)

Round 2 - Technical

I was asked a warm-up puzzle (check the gfg page for a list of such problems, I was asked the Bridge problem where there are 4 people, different speeds, min time to cross the bridge)

Round 3 - Technical

I was tested based on theory- Trie, Queue, Stack, BST, Hashmaps. Basic scenarios where they maybe used and advantages of one over the other. One question was use an array of size n to simulate two stacks.

Sprinklr

Round 4 - Technical

They asked me a lot of LeetCode hard questions, most of which were puzzles- like Super Egg Drop, Poison Pigs, and other Qs on Gfg page. This was followed by a detailed explanation of the works I have done, including Co-curriculars. I was a Volunteer and Publicity Coordinator, so I was grilled on that.

Round 4 - HR

They asked Qs like strengths, weakness, use one word to describe yourself, how your friends see you, scenarios where you took a risk and came up high, work-life balance, willingness to go beyond what's allotted, Projects discussions again (They finally asked me if I get an offer from dream company [Maine Google kaha tha], If I would leave Sprinklr.

Relevant Courses or Certifications

DAA, DSA, DBS, OOP, PnS

Personal Experience

Sources of preparation -

Apart from those covered in the coursework, I went through Leetcode Qs (Blind 75 and those suggested by Neetcode), Gfg articles and InterviewBits QBanks.

Words of advice - You'll probably find yourself tested in various domains throughout the process. Just know that often these are random, I was tested only on the basis of DSA requiring hardly 10-15 lines, while many others were grilled on DBS (Optimal SQL Queries asking to extract required results after a few complex operations) and Basic Low Level Designing ranging over 300 lines of code. The best thing you can do is get your basics covered, and make sure the subjects mentioned are thorough to you. Do keep the projects in your resume in mind as often the rounds (including HR) base their decisions off your experiences mentioned there.

Tata 1mg

Introduction

Interviewee - Samay Amit Gandhi (2020A7PS0299P)

Job Role - SDE

Number of offers made - 3

Selection Process

Branches open to - CS/EEE/ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

Held in the IPC, this round consisted of MCQs based on basic qualitative and quantitative aptitude related to Object Oriented Programming and SQL. 2 DSA questions were also asked, which were LeetCode easy and medium.

Round 2 - Technical Interview

The first interview was Resume based. We were questioned on the projects we had mentioned on our CV, and the questions we had solved in the OA were also discussed. Questions were asked based on OOP as well.

Round 3 - Technical + HR Interview

This round was heavily resume based. Tough questions regarding the role were asked, plus we were also tasked with writing SQL queries. This round lasted 1.5 hours.

Tata 1mg

Relevant Courses or Certifications

The following CS courses are extremely helpful:

1. CS F211 - Data Structures & Algorithms
2. CS F372 - Operating Systems
3. CS F303 - Computer Networks
4. CS F213 - Object Oriented Programming
5. CS F212 - Database Systems

If you can get a Study Oriented Project, it would reflect well on your Resume.

Personal Experience

Sources of preparation -

Neetcode 150 question list is enough for DSA preparation. Moreover, Interviewbit and Leetcode are good sources as well. Course Slides for CS fundamentals like OOP, OS, DSA, DBMS are enough.

Words of advice -

Do Competitive Coding and DSA consistently, Add some full-stack projects in your resume, Prior Intern experience gives you an edge. Get into depth of projects. Whatever you do, connect it to basics. There's no point in just copying code.

Introduction

Interviewee - Naman Luthra (2020A7PS1682P)

Job Role - Software Development Engineer

Number of offers made - 3

Selection Process

Branches open to - CSE only

CG Cutoff -7

Recruitment process -

Round 1 - Online Assessment Test

After resume shortlisting, an online assessment test was conducted. It covered LeetCode medium to high level DSA problems and we were expected to showcase a good level of speed and accuracy while tackling the questions.

Round 2 - Technical Interview I

This round was entirely focused on the technical side. The interviewer asked some questions on Data Structure & Algorithms (DSA), similar to LeetCode-medium level, and grilled me on CS fundamental questions.

Round 3 - Technical Interview II

Post interview round I, I was called for the technical round II. Again, this round had LeetCode-tough level DSA questions. Additionally, the interviewer dived deeper into the CSE core subjects like Object Oriented Programming (OOP), Operating System (OS), and few Computer Network problems were also asked.

Round 4 - Interview III

This was sort of a techno-managerial round in which I faced questions about my internships and projects. Apart from that, there were some situation-reaction tests (SRTs) to check my behavior.

Round 5 - HR round

Relevant Courses or Certifications

Courses like Database Systems, Computer Networks, and Operating Systems helped me throughout the recruitment process because these courses form the basics of CS fundamentals, and their slides and assignments are pretty good for practice.

Personal Experience

Sources of preparation -

To get ready for the software role interview, I practiced with sites like LeetCode and GeeksForGeeks for DSA. They had questions from previous interviews, which helped me get better at problem-solving and understand the kinds of problems often asked in interviews.

Words of advice -

If you are aiming for a software role focus on the core CS fundamentals and Development along with DSA because that would help you to grow as a Software Engineer.

WinZO Games

Introduction

Interviewee - Aryan Hemantkumar Desai (2020A7PS0123P)

Job Role - Software Developer

Number of offers made - 1

Selection Process

Branches open to - CSE and Phoenix only

CG Cutoff -7

Recruitment process -

Round 1 - Online Assessment Test

An online assessment test was conducted comprising 3 Data Structure & Algorithms (DSA) questions. We were expected to showcase a high level of speed and accuracy during the test.

Round 2 - Technical Interview I

This round was quite smooth for me and it went well. There was a discussion held with the interviewer on my resume, projects and internships.

Round 3 - Technical Interview II

In this round, purely DSA based questions were thoroughly discussed with the interviewer, which I answered to the best of my ability.

WinZO Games

Round 4 - Telephonic Interview

Telephonic interview was nothing but a short HR round that was pretty simple and it lasted for around 10 minutes. The questions were very similar to what you expect in a general HR round.

Relevant Courses or Certifications

Courses like Object Oriented Programming (OOP), Operating System (OS), DSA, and Database Management System (DBMS) proved to be fruitful for me throughout the recruitment process.

Personal Experience

Sources of preparation -

- DSA on LeetCode
- Geeks for Geeks
- InterviewBit

Words of advice -

- Start early (at least 6 months before the placements) to be good at coding. And if time permits, you can also do competitive programming to sharpen up your skills.
- Be consistent and try to solve at least 10 DSA questions every day during the placement season.

Product Management

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What is Product Management?

Product management involves overseeing a product's entire lifecycle, from concept to improvement.

Resources

Check out some training resources provided by the Placement Unit to get started on your preparation for these roles -

1. Placement Training Module for Analytics and Machine Learning by the Career Development Committee, Placement Unit - [click here](#).
2. Basics of Data Visualisation and Machine Learning by the Career Development Committee, Placement Unit - [click here](#).

Present and Previous Recruiters



Meesho

Introduction

Interviewee - Ayan Rajvanshi (2019B2A20950P)

Job Role - Associate Product Manager

Number of offers made - 2

Selection Process

Branches open to - All

CG Cutoff - None

Recruitment process -

Round 1 - Online Assessment

There was an online HackerRank test which had 3 SQL questions and we were given 1 hour. In terms of difficulty level, the questions were medium to tough.

Round 2 - Technical Interview

As my role focused on comprehending the life cycle of consumer and digital products, in this round the questions included Root Cause Analysis (RCA) & Guesstimates

Round 3 - Technical Interview

The second interview was more focused on my past experiences, resume and college life and I had to prove I stand out from the crowd. What helped here were my previous interns, one at SaltPay and the other at Jupiter, both startups. As a product intern in both, I used to work and analyze data to draw insights, and push up campaigns, communication and onboarding people.

Meesho

Personal Experience

Sources of preparation -

I got ready checking out PM Schools and Exponent on YouTube. These places had useful info and stories from experienced product managers. To boost my technological skills, I also took a course on Udemy for SQL.

Words of advice -

Practice as many case studies as possible. And if you are applying for a firm in a certain industry, make sure to read about the other firms in that industry and what techniques and strategies they have followed to attain growth.

Tata 1mg

Introduction

Interviewee - Shreya Kumari (2020A2PS1490P)

Job Role - Associate Product Manager

Number of offers made - 1

Selection Process

Branches open to - All

CG Cutoff - None

Recruitment process -

Round 1 - Technical Interview I

Questions were asked based on Root Cause Analysis (RCA) and Guesstimates. This round was preceded by Resume Shortlisting.

Round 2 - Technical Interview II

In this round, questions on RCA, product design and product improvement were asked. One of the questions was to design an app for NSS, since I was a part of it.

Round 3 - Technical Interview III

This round consisted of questions like design, guesstimates and analytical questions, like:

- To estimate the market size of dog food in India
- To design a home for blind people
- To give inputs to the algorithm to optimize traffic lights

Tata 1mg

Personal Experience

Sources of preparation -

I prepared myself by exploring PM Schools and Exponent on YouTube, where I found valuable information and insights shared by experienced product managers. My previous interns at IGCAR (PS-1) and at Goldman Sachs (SI), also provided me with some experience that helped me during the interviews.

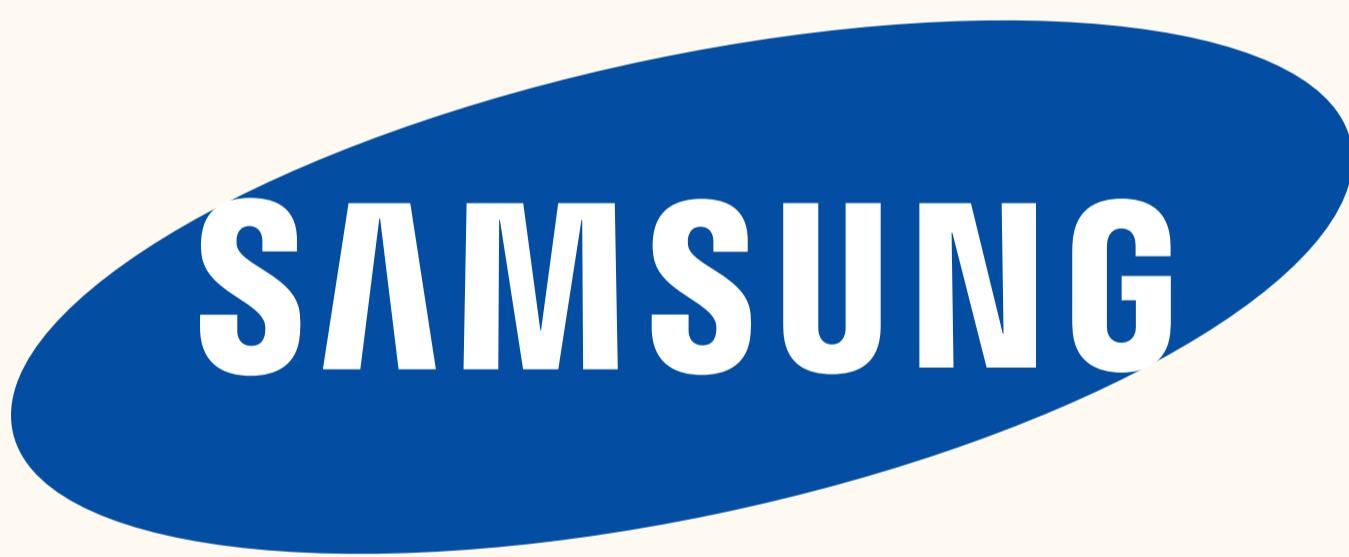
Words of advice -

Engage in numerous case studies to enhance your skills. If you're applying to a company in a specific industry, thoroughly research other firms within that sector.

Research

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Some Present and Previous Recruiters



Tata Consultancy Services

Introduction

Interviewee - Hrithik Raj Gupta (2019B2A70995P)

Job Role - Researcher

Number of offers made - 1

Selection Process

Branches open to - All

CG Cutoff - 7.5+

Recruitment process -

Round 1 - Resume Shortlisting

I assume that people were selected in this round on the basis of the projects they had displayed on their resume, as well as the technical skills they had talked about on the same.

Round 2 - Technical Interview

It was a research role so it was expected to have some research background from project courses and Thesis. Questions were asked based on my research interests and the projects I had done, why I had done them, what methods I opted to execute them, etc.

Tata Consultancy Services

Relevant Courses or Certifications

Taking BITS F464 - Machine Learning, BITS F312 - Neural Networks and Fuzzy Logic, and CS F425 - Deep Learning, all helped deepen my understanding of various topics and also helped further my research interest in these fields.

Personal Experience

Sources of preparation -

My go-to resources were d2l.ai, deeplearning.ai courses, and Andrej Karpathy's YouTube channel. They were very beneficial in providing the help I needed to understand various topics.

Words of advice -

Try to gain as much research experience as possible in your chosen area from project courses, research internships and thesis. Try to start taking project courses from your 2-1 and if the area you want to do research in is not related to your branch try to do remote research internships, as they are comparatively easy to get.

Samsung R&D Institute, Noida

Introduction

Interviewee - Deep Pandya (2020A7PS0148P)

Job Role - Engineer - R&D

Number of offers made - 2 (Societe Generale PPO)

Selection Process

Branches open to - CS, EEE and ENI

CG Cutoff - 7+

Recruitment process -

Round 1 - Online Assessment

This was like every other OAs. Questions from topics like DSA and DBS were asked.

Round 2 - Technical Interview I

Questions based on DSA and DP were asked. There was a question on the Egg-drop problem as well, along with one simple question on binary search. It was followed by a brief discussion on my SI project.

Round 3 - HR Interview

A 15-20 minute standard HR interview. They asked me basic HR questions like why do you want to work in this field, why do you want to join this company, etc.

Samsung R&D Institute, Noida

Relevant Courses or Certifications

1. CS F211 - Data Structures & Algorithms
2. CS F372 - Operating Systems
3. CS F303 - Computer Networks
4. CS F213 - Object Oriented Programming
5. CS F212 - Database Systems

Personal Experience

Sources of preparation -

I mainly used Geekforgeeks and InterviewBit for understanding of concepts, and Codeforces for practice.

Words of advice -

My advice would be to prepare for DSA very well, as the interview heavily focused on it. Also, brush up some information about the company, as that makes the HR interview pretty easy.

Meet the Team



Chaitanya Iyer

Training Coordinator, Semester I



Akshatha Sabaji

Coordinator, Semester I,
Placement Repository Committee



Sarthak Sharma

Coordinator, Semester II,
Placement Repository Committee



**Hariansh
Jalan**

Member,
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**Kunal
Shekhawat**

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Placement Repository
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**Siddharth
Garg**

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**Presented by the
Placement Repository Committee**