

Interview Experience

How did you prepare?

Top topics you prepared? (Mention at least 5 with comma separated)

1. Data Structures: Stack, Queue, Linked List, Tree etc
2. OOPS: Inheritance, Polymorphism, Data abstraction etc
3. Java: Exceptions, Collection etc
4. Operating System: Threads, Process Management, Memory Management
5. Database management system: Joins, Normalization and Transactions (ACID Properties) SOLID Principles

Duration Of Preparation (In months)

2.5 months

Preparation Tips (Mention at least two tips line separated)

Tip 1: Keep your basics strong. Revise each and every concept of theory regularly. Don't study new concepts, first prepare previous ones.

Tip 2: Focus more on coding to get into a good organization because the first step to reach the interview round is to clear the coding round.

How did you apply?

Where did you apply?

On campus

Any eligibility criteria?

No eligibility criteria.

Resume Tips (At least two)

Tip 1: Don't mention those things in your resume that you don't have full command on. You should have complete knowledge of what you mention in your resume.

Tip 2: Make your resume short and precise.

Why do you think you were shortlisted?

I gave the approach of every coding question they asked me. I was very interactive with the interviewer. I don't feel much pressure. I explained the approach and concepts using diagrams taking different test cases.

Number Of Rounds

How many rounds were there?

4

First Round Details

Round Type

Online – Coding + MCQ (Aptitude + Programming based)

Date of Round

09-08-2021

Difficulty of round

Medium

Duration of round

135 minutes

Platform

HackerRank

Location of round

Home

Description of round

The online test round was active on 9th August, 2021 from 10:00 AM. The students can login till 10:15 AM. The test was 135 minutes long. The camera was on throughout the test. It was a proctored test so any movement can lead to disqualification from the test.

There were 4 sections in the test. The time allotted to each section was fixed.

Section A consisted of 2 coding questions which were supposed to be done in 30 minutes.

The problems were arrays, strings and maths.

Section B consisted of 8 aptitude questions. The level of questions was easy to medium and were supposed to be done in 25 minutes.

Section C consisted of 1 coding question which was supposed to be done in 45 minutes.

The problem was of a hard level.

Section D consisted of 2 subjective questions which were supposed to be done in 15 minutes.

Section E consisted of 7 MCQs based on theoretical subjects which were supposed to be done in 20 minutes.

Why were you passed / rejected for this round?

I managed to do 2 coding questions, 1 completely and 1 partially. I also managed to do most of the aptitude and MCQ questions and both the subjective questions which made me pass this round.

Second Round Details

Round Type

Online – Zoom call

Date of Round

11-08-2021

Difficulty of round

Medium

Duration of round

30-40 minutes

Platform

HackerRank – Coderpad

Location of round

Home

Description of round

The round started at 11.30 AM approx. All the candidates were waiting in a breakout room and as my turn came, I was sent to another zoom room. My camera and microphone were on. The interviewer was quite supportive.

Problems Data**Problem 1:**

Problem Type: Coding problem

Problem Statement: Given a linked list with data as 0 or 1. Convert the data of this linked list into a decimal number.

My approach:

Approach 1: Start traversing the linked list and store data of each node in a vector and then convert the numbers present in this vector into a decimal number.

Time complexity – $O(N)$

Space complexity – $O(N)$

Approach 2: Reversing the linked list. Traverse the linked list take each number at a time and convert it like – number * 2^x (where x can go from 0 till the end of the linked list) and add all the numbers.

The interviewer looked satisfied and asked me to code the second approach.

Problem 2:

Problem Type: Puzzle problem

Problem Statement: There are 25 horses and 5 lanes. Only 5 horses can run a race in 1 lane. Determine the number of races required to get 3 fastest running horses.

My approach:

Since we have 25 horses and 5 lanes. So these 25 horses can run in 5 lanes (5 horses in 1 lane). We will get the fastest horse from each lane so total 5 horses. Now these 5 horses can run in 1 lane and we will get 3 fastest running horses.

So total number of races = $5+1 = 6$

The interviewer looked happy and satisfied.

Why were you passed / rejected for this round?

I passed this round as I solved the coding as well as puzzle problem. I was also interacting with the interviewer.

Third Round Details

Round Type

Online – Zoom call

Date of Round

11-08-2021

Difficulty of round

Medium

Duration of round

30-40 minutes

Platform

HackerRank - Coderpad

Location of round

Home

Description of round

The round started at 01:30 PM approx. All the candidates were waiting in a breakout room and as my turn came, I was sent to another zoom room. My camera and microphone were on. The interviewer was quite supportive.

Problems Data

Problem 1:

1. Tell me about yourself?
2. Tell me about the projects you have done and which technologies you have used?
3. Why did you choose those technologies to do your projects?
4. Tell me about the work/project you are doing in your internship.

Problem 2:

Problem Type: Coding problem

Problem Statement: Given a list consisting of different numbers. Tell the number of pairs formed by adding the 2 digits which are divisible by multiples of 60.

My approach:

Approach 1: Store the frequency of each number in a map. Start with the first multiple of 60. Traverse the list and count the number of pairs divisible by 60. Like this for 120,180 and so on.

Then the interviewer asked me to optimize this approach.

Approach 2: Store the frequency of each number in a map. Start traversing the list. If the number is less than 120 check if a pair can be formed which is divisible by 60 and if the number is less than 180 check if a pair can be formed which is divisible by 120 and so on. The interviewer asked me to explain my approach for multiple test cases. In the end he looked satisfied.

Why were you passed / rejected for this round?

I passed this round as I was able to tell the approach of this problem. I was also interacting with the interviewer.

Fourth Round Details

Round Type

Online – Zoom call

Date of Round

11-08-2021

Difficulty of round

Hard

Duration of round

45 minutes

Platform

HackerRank - Coderpad

Location of round

Home

Description of round

The round started at 4:00 PM approx. All the candidates were waiting in a breakout room and as my turn came, I was sent to another zoom room. My camera and microphone were on. The interviewer was quite supportive.

Problems Data

Problem 1:

Problem Type: Coding problem

Problem Statement: Given a list consisting of start time, end time and product of a price throughout the day on a website. Arrange this list as the best price of product available in the particular time interval and separate out the interval having the least price of product.

My approach:

Take a temporary interval as the first given interval. Start traversing the list and compare the end time of the temporary interval and start time of each interval of the list. If the start time is

less means merging of intervals is required else no merging is required. For finding the least price interval find the minimum price.

The above approach didn't come in one go. Since this problem was a typical one, my interviewer helped me throughout the interview in optimising my approach, clarifying things and then I was able to come up with the above approach. Later he asked me to explain my approach on various test cases.

The interviewer looked satisfied.

Why were you passed / rejected for this round?

I passed this round as I was able to tell the approach of the coding problem.

Tips:

1. Solve the problems with a calm mind. Don't panic in case you don't know.
2. Keep on interacting with the interviewer as it gives a good impression and if you are stuck somewhere they may help you.
3. Be thorough with your resume (projects and internships importantly).