

Tawi Tyagi (MSc) - 30th July 2021

Round 1 :: Online Assessment (35 questions - 40 minutes)

1. Section 1 : Aptitude (easy - medium)
2. Section 2 : C/C++ language based questions.

Platform: firstnaukri.com

The level of questions was medium but some questions were very lengthy. The catch to crack this round was to choose to solve questions that you know you can solve under a minute. Skip the time consuming questions and solve the easy ones first.

Round 2 :: Technical Round 1

She started off with her introduction and asked for mine. She asked about my experience in the online assessment round on firstnaukri platform. Then we discussed all of my projects in great detail. My projects were of website development so she asked the following questions:

- 1) Write a query in mongodb to insert a document in a collection.
- 2) Sql vs NoSql databases
- 3) MongoDB is a distributed database. Explain
- 4) Horizontal vs Vertical scaling
- 5) Sharding
- 6) What are indexes? How can you view which index is being used in SQL?
- 7) How is query executed? How can you view the query execution plan?
- 8) What is storage engine?

Then we moved to DSA. I was asked two very easy DSA problems.

- 1) Find the minimum element in an array of unsorted integers.
- 2) Implement queue using stack.

Then she asked What is multithreading? Implement it in Java (Since I listed in my resume that I know Java).

I asked her about the company. She also gave me some positive feedback when I asked her to.

Round 3 :: Technical Round 2

My interviewer was late and she didn't have my resume. So I shared my resume in the chat section (Tip: Keep your resume handy). Then she asked to give a brief introduction as she goes through my resume. She asked me why I didn't do any internship.

Then we moved to DSA.

- 1.) Find duplicate numbers in unsorted array of integers.
- 2.) Implement LRU Cache

She was doing some other work while I was coding. But I kept explaining myself. (Tip: Don't get panic when you don't receive any feedback.)

She asked basic SQL Queries and OOPS Concepts Abstraction vs Encapsulation, Method Hiding, etc.

What is concurrency control? How it is achieved?

She asked if I had any questions. I asked her about our role in the company. She refused to give any feedback.

Round 4 :: Technical Round 3

The interviewer gave his brief introduction. He was VP. Then I was asked to introduce myself.

He started with basic OOPS Concepts abstraction and polymorphism. I explained them with the help of an example in detail.

We then moved to DSA.

- 1) Reverse a singly linked list in group of k elements.

I had solved this question previously but I got confused in the pointer manipulation. I politely asked him whether I can use pen and paper to visualize the pointers to which he agreed. Then I coded my solution but it took me quite some time. He was not able to understand my solution in the first go but he was very supportive.

- 2) Print all the permutations of a given string.

Follow up: Modify your solution when string contains duplicate characters.

I asked him about the training programme. He refused to give any feedback.

Platform for Technical Rounds: Microsoft Teams

For coding we were asked to share our screen and use any editor. I also used [autodraw](#) to explain concepts and coding solution with the help of diagrams.

Round 5 :: HR Round

1. Introduce yourself
2. Brief your projects
3. What do you know about InfoEdge

4. Your experience in the previous rounds.

Tips:

1. Do not lie on your resume.

2. You should have in-depth knowledge about topics related to your projects.

3. DSA part was not tough. Even though you know the solution, don't jump to it. Explain the intuition and discuss all the approaches that you know.

4. Do ask for feedback and other relevant questions.