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Thoughtworks (Application Developer)
Interview Experience

Round 1: Online Assessment

Duration: 90 Minutes

Platform: HackerRank

This round was a blend of conceptual, output, aptitude and coding questions. In all, there were 15 questions. 3 questions were coding.

String difference (Find complement): Suppose there are two array of strings, A and B. A is ["two", "three", "four"] and B is ["two", "three", "five"] then the output should be **five**.

2nd Question: A string vector is given. Remove the occurrence of a given character. Suppose the vector is "ABCABAA" and we have to remove 'A' then the output should be "BCB".

Round 2: Code Pairing Round

Duration: 1.5 hours

Platform: Zoom

Question: <https://rb.gy/w7i0dn>

This round is different than most rounds in different companies. There are two interviewees. You receive the question to code 15 minutes prior. You have to decide the approach. Use OOPs concepts well in this round.

Make sure that the code must be dynamic and not static. In the above question, the code must be made such that more OTT platforms can be added.

Remember to ask questions. If you are stuck, they will be able to help you. Use classes, correct names, data structures and make a simple code.

Round 3: Technical Interview

Duration: 1.5 hours

Platform: Zoom

There are two interviewees. The interview starts with the greetings. Both the interviewees are very friendly. There are several parts to this interview.

- Project - After the greetings, they ask you about the projects you have developed. My project was in Flutter. You have to explain them your projects. Thus study you projects carefully. The initial 15-20 minutes should be covered by the projects. They might ask you about certain minute details about your projects like what databases have you used etc. Be thorough.
- OOPs - The second part in this interview is the concept of OOPs. Study the concepts well and try to explain them with live examples so that they know that you have good conceptual knowledge. If you are not familiar with a concept, be confident and tell them that you are unaware and you will learn about that concept.
- DSA - The interviewees next asked me some basic DSA questions like what is the difference between an Array and a linked list, what is quick sort, what is the difference between quick sort and merge sort, what are the different data structures that I have studied, what are linear and non linear data structures and a few more basic questions.

For all these questions, open a notepad and explain them there that how everything they have asked works. If you have a doubt, wait for sometime and recall.

They asked me that what all data structures I am comfortable with. I wasn't much comfortable with Graphs so I told them that. Then, they asked me a Medium level DSA question.

Question: <https://www.geeksforgeeks.org/friends-pairing-problem/amp/>

I started by using DP, and progressed further and was able to solve the question in sometime. After this, they asked me to solve the question using less space and provided me with hints. I was able proceed further and solve the question using less space. They asked me about the space and time complexities in both the approaches and then we moved on to the next part.

- DBMS: This portion started with basic questions about databases. A question which used a nested query was asked. You should know how to use nested queries. If you are stuck, tell the interviewees the approach you are thinking, and then write it down.

They asked me one more question which used multiple joins and then they asked me certain questions revolving joins.

Round 4: Social Change and Leadership

Platform: Zoom

Duration: 1.5 hours

This round too had two interviewees. It started with the introduction of both the parties. As the name suggests, it had a round for Social Change. The company, thoughtworks, works for social change as well, thus be sure to read certain blogs that they have put up in their website.

They started to ask me certain situational questions and one question led to another. For this round, just be confident and tell them how you feel in multiple scenarios.

Later came the leadership part. Tell them about the projects you have undertaken as a team leader and multiple places where you have shown your worth.

Just be confident in this round and continue to give good solutions to certain social problems.

In all the round, ask questions. If you are unable to understand something, ask that. Just be confident and you will qualify. Don't panic. Something will happen at the end.

All the best!