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Microsoft Interview Experience for Software Engineer

- Difficulty Level :\nMedium
- Last Updated :\n09 May, 2021

On 3rd April 2021, I got a mail that I have been referred by some employee and so they are sending me a test link with a one-day window.

Round 1(1 hr 30 mins): The test was conducted on Mettl platform. There were a total of three questions. Two of them were based on Trie and one from the Segment tree

1. https://www.geeksforgeeks.org/longest-common-prefix-using-trie/?ref=rp
2. Given an array and q queries with range L and R. Find the count numbers such that the absolute difference between the highest and lowest (in a range) is less than given k.
3. Don\xe2\x80\x99t remember.

On 6th April, I got the mail that I have cleared my online test and will be having my interview on 8th.

Round 2(45 mins): My interview started around 12:15 pm. It started with a brief introduction. And then just one coding problem. He asked to open any compiler and share my screen. https://www.geeksforgeeks.org/sum-leaf-nodes-minimum-level/ First I had to explain my approach and then write the complete code. He then gave a few test cases to check my code.

Within five minutes after completion of this round, I got the mail that I\xe2\x80\x99ll be having my round 2 interview from 3:30.

Round 3(1 hr): The interviewer briefly gave his introduction and then started with the ques.

1. What is the critical section ? Give any example.
2. What do you mean by race condition ?
3. How steps you take to solve critical section problem ?
4. Concept of Virtual memory.
5. Write and explain code for the Producer Consumer Problem.
6. Explain approach and then write complete code for\xc2\xa0 https://www.geeksforgeeks.org/represent-the-fraction-of-two-numbers-in-the-string-format/. With some help from the interviewer, I was able to solve this completely.
7. Do you have any ques for me?

In the evening I got the mail that I have cleared this round too and they\xe2\x80\x99ll be scheduling my next round on coming Monday.

Round 4 (AA Discussion): (45-50 mins)

- This round is the final and the deciding round. This person would only say a final yes or no for your selection. The interviewer was extremely humble. nice and soft spoken. He had all the details of my previous interview.
- It started with a normal introduction. I saw that he was noting down my projects\xe2\x80\x99 name and previous experience. Then he started discussion about my project and extremely detailed discussion.
- Then we started talking about my current internship and the project I am doing currently. That was all from his side. And he asked me to ask ques now. Then we had a very detailed conversation. He was from the Microsoft Edge team and had been working for 10 years.
- We talked for around 30 mins and then my part was done.

- Then two days later, on the 14th I got a call from HR that they have scheduled a 15 mins HR discussion for me. I was all nervous as this round was never mentioned. The meeting started with a normal introduction and then he asked my college\xe2\x80\x99s name. I told him and he said \xe2\x80\x9cOk, then we\xe2\x80\x99ll be sending them the mail that I have been offered FTE SWE Role\xe2\x80\x9d. Oh my God! On hearing this I was cloud nine. He then told me about the detailed salary compensation and it was done \xf0\x9f\x99\x82

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