RISHI CHAURASIA
MCA 2019-22

CVENT INTERVIEW EXPERIENCE (INTERN + FTE)

ROUND 1: (APTITUDE + TECHNICAL) – *60 MINUTES*
There were a total of 30 questions to be done in 60 minutes which were from different topics like SQL, C++, JAVA, and basics. If you know the basics you can easily clear this round.

45 students were qualified for the next rounds.

ROUND 2: (CODING) – *60 MINUTES*
There was a single question of medium to hard difficulty to be done in 1 hour.

Q: A retail store chain wants to expand into a new neighbourhood. To maximize the number of clients, the new branch should be at a distance of no more than K from all the houses in the neighbourhood. A is a matrix of size N x M, representing the neighbourhood as a rectangular grid, in which each cell is either an integer 0 (an empty plot) or 1 (a house). The distance between two cells is calculated as the minimum number of cell borders (regardless of whether the cells on the way are empty or occupied) that one has to cross to move from the source to the target cell (without moving through corners). A store can be only built on an empty plot. How many suitable locations are there?

For example,
K = 2 and
matrix A = [[0, 0, 0, 0],
            [0, 0, 1, 0],
            [1, 0, 0,1]]

Answer – 2

Explanation - Houses are located in cells with coordinates (2, 3), (3, 1) and (3, 4). We can build a new store on two empty plots that are close enough to all the houses. The first possible empty plot is located at (3,2). The distance to the first house at (2,3) is 2, the distance to the second house at (3,1) is 1, and the third house at (3, 4) is at a distance of 2. The second possible empty plot is located at (3,3). The distances to the first, second and third houses are respectively, 1, 2 and 1.

16 students were shortlisted.

ROUND 3: (F2F INTERVIEW) – *60 MINUTES*
She introduced herself and asked me to do the same. Then she asked me rate myself on a scale of 1 to 10 for my DSA and SQL skills. I rated myself 6-7 for both. Then she started with the DSA part.

Q1. https://www.geeksforgeeks.org/delete-middle-of-linked-list/

I gathered the necessary requirements and then told her the brute force solution. She was ok with that and asked me to code the same. I asked her if I had to also implement a linked list or just assume that it has been given to me. She told me to implement as it was just a very small code. Then I wrote the code for the same along with continuously explaining the code. Then she told me to dry run the code on a text case. So I did the same along with rectifying some minor mistakes which I did. I knew the optimal approach but she didn't asked so I didn't tell.

Q2. https://leetcode.com/problems/implement-queue-using-stacks/

I gathered the necessary requirements and then told her the 2 stack approach. She asked me to code the same. I asked her whether I could use the inbuilt Stack. She told me to also implement the stack. So I did the same.

Now we moved on to SQL section.

Q1. Write a query to get all the even numbered rows from the Student Table.

Q2. Write a query to get 'First 5 characters' of Names of each Student.

Q3. Write a query to get the Departments in which there is no Employee using Employee and Department Table.

Now she was done with the interview and asked whether I have any questions. I asked her about the work culture of the company, what tech stacks they use and her own experience with the company and average working hours per day. She was very friendly and answered all my questions.

10 students made it to the 4th Round.

ROUND 4: (F2F INTERVIEW) – *60 MINUTES*

He introduced himself and asked me to do the same. Then he immediately started with his first question.

Q1. https://www.geeksforgeeks.org/double-tree/

I gathered the necessary requirements and told him the recursive approach. He told me to code the same. After I was done with the code he asked me to dry run it on the given test case. My code had a minor mistake, I did the dry run but didn't find any mistake. Then he asked me a small question on my logic, then I immediately found the error and rectified the same.

Q2. There are n clients having only read/write access to a specific folder located on the server. They don't have access to any other services on the server apart from that. All clients are trying to access a specific file in that folder. How would you synchronize access requests such that only one client must be able to read/write the file at a given time.

I didn't knew the solution but I didn't gave up. I continuously tried to give different approach that came to my mind and he tried to counter me on all the approaches. After having 15 minutes of good discussion on it we finally settled on a solution.

Then he asked me if I had any questions. I asked him about his experience in the company and about foreign travel opportunities in the company. He answered the same.

This round only lasted for around 30 minutes despite being of 1 hour. I thought that I won't make it. But after 5-10 minutes I got the message from HR for further round.

Only 7 students made it to the next round.

Round 5: (Aptitude and Personality Test) – *(45-60 Minutes)*

It was a CCAT test in which the aptitude section contained 50 questions to be done in 22 minutes with no negative marking and the personality test had no time limit. The aptitude test was very easy. You can do almost all the questions if you manage your time well. Finally, all 7 students were selected for the Internship + Fulltime offer and I was one of them.

Points to be noted:
1. It's okay to be nervous in an interview.
2. You will be selected when it's your day and your day will definitely come. So don't loose hope and keep practicing.
3. Prepare your DSA section well.
4. Prepare your projects well and keep brief knowledge of its working and all the technologies and libraries which you have used in your projects. (from Prior Experience)
5. Also prepare for Object Oriented Design and Analysis. (from prior Interview Rejection Experience)

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