Editorialist YX Interview Experience

Nidhi Verma (MCA) - August 17th,18th 2021

Round 1: Online Assessment

Date: 17th August, 2021

Platform: Mettl
Duration: 2hrs

There were 3 sections:
Section 1: General Aptitude (40 Questions - Medium/Hard Difficulty)
Section 2: Technical Aptitude (20 Question)
Section 3: Coding Questions
1. Stack next greater's next smallest
   https://www.geeksforgeeks.org/find-next-smaller-next-greater-array/
2. First unique character in a running stream
   https://www.interviewbit.com/problems/first-non-repeating-character-in-a-stream-of-characters/
3. Subset with target sum present or not
   https://www.geeksforgeeks.org/subset-sum-problem-dp-25/
4. Kth symbol in a grammar
   https://leetcode.com/problems/k-th-symbol-in-grammar/

Note:
1. **Refrain from any unfair means during OA. EYX is very strict in this respect. To verify if the candidate has genuinely answered all the questions, they asked questions from OA in the following interview rounds.**
2. **Even if you solve 10/40 aptitude questions, it's fine but be honest.**
3. **Solve at least 3 out of 4 coding questions correctly.**

19 students were shortlisted for Round 2

Round 2: Technical Round 1

Date: 17th August, 2021
Duration: 60mins

This interview was taken by 2 interviewers out of whom one was a DUCS alumnus. The interview started with my experience during OA and which section I liked the most. I replied that I found the Coding Section to be quite easy but the aptitude section didn't go well comparatively.

Then I was asked a few general and technical aptitude questions from the OA.

1. There were 20 people at a party. If every person shakes hands with every other person, what is the total number of handshakes?
2. What is the total number of nodes present in a binary tree with each node having 0 or 2 children nodes?

Next, I was asked to give the approach for the 2nd question of the Coding section of OA.

After that few conceptual questions were asked:

1. Encapsulation vs Inheritance
2. String vs StringBuilder

In the end, I was asked to print a diamond shaped pattern.

Hollow Diamond

At last, I was asked if I had any questions, I asked a few and the interview ended.

13 students were shortlisted for Round 3

Round 3: Technical Round 2

Date: 18th August, 2021
Duration: 60mins

The interview started with my introduction and my experience during OA.

1. Project Discussion:
   - The interviewer asked me to explain my second project which was based on the MERN stack.
   - Difference between MongoDB and MySQL.
   - Why did I choose MongoDB over MySQL?
   - Explain the REST APIs used in the application.

2. Next, I was asked few questions related to DBMS
   - A seller sells multiple grocery items to multiple customers. Design DB Schema.
   - Find distinct customer names who bought a specific grocery item.

3. Find the missing numbers in an integer array containing numbers in the range [1..n] having duplicates.
https://leetcode.com/problems/find-all-numbers-disappeared-in-an-array/

4. Reverse a stack.
https://www.geeksforgeeks.org/reverse-stack-without-using-extra-space/

5. Print nodes of a binary tree in reverse level order.
https://www.geeksforgeeks.org/reverse-level-order-traversal/

6. Puzzle : Make 8 equal pieces of cake by making 3 cuts.
https://www.geeksforgeeks.org/puzzle-3-cuts-cut-round-cake-8-equal-pieces/

   At last, there was a detailed discussion on ReactJS.
   - Why is React JS better than Javascript?
   - What are React Hooks and why are they used?
   - Functional Components v/s Class components.
   - Explain Component Lifecycle methods.
   I answered all the above questions with respect to my project.

   7 students were shortlisted for Round 4

Round 4: Technical Round 3

Date: 18th August, 2021
Duration: 90mins

1. Puzzle: Minimum Cut Puzzle
https://www.geeksforgeeks.org/puzzle-31-minimum-cut-puzzle/

2. Puzzle: 20 Red Balls, 20 Blue Balls. Given 2 boxes, distribute the balls in the two boxes in such a way that the probability of picking 2 balls which are both red in color becomes the maximum.

3. Integer to Roman
https://leetcode.com/problems/integer-to-roman/

4. Given a string s, remove duplicate letters so that every letter appears once and only once. You must make sure your result is the smallest in lexicographical order among all possible results.
https://www.geeksforgeeks.org/lexicographically-smallest-string-formed-by-removing-duplicates/

5. Puzzle: There are 12 intermediate stations between two places A and B. Find the number of ways in which a train can be made to stop at 4 of these intermediate stations so that no two stopping stations are consecutive?

6. Puzzle:
   Eight persons – Ankit, Kavit, Manit, Vinit, Charit, Sumit, Ganit, and Ronit are sitting in a straight line (but not necessarily in the same order) such that three of them are facing south and rest of them are facing north. Each of them works in a different bank – SBI, UCO, PNB, BOB, SEBI, RBI, BOI, and NHB (but not necessarily in the same order).

   Four persons sit between Ronit and Charit, who works in RBI. Sumit sits right of Manit, who works in BOI. Ganit and Charit face opposite directions to each other. The one, who is sitting on the immediate right of Vinit, works in NHB. Kavit sits third from one of the extreme ends of the row. Ronit sits third to the right of Manit. The one who works in PNB sits immediately to the right of the one who works in UCO. Manit doesn't face the north direction. Ganit is an immediate neighbor of Manit and Charit both. Vinit sits second to the right of Ganit. Manit sits on the immediate left of Kavit. The one who works in SBI sits at an extreme end. The one who works in BOB sits between Charit and Ankit. Sumit does not work in PNB.

   What is the position of the one who works in BOB with respect to the one who works in PNB?

7. Given 3 pairs of shoes. Find the probability of picking a matching pair.

4 students were shortlisted for HR Round

Round 5: HR Round

Date: 18th August, 2021
Duration: 30mins

1. Tell me about yourself.
2. Family background.
3. What are your interests?
4. Why do you want to join EYX?
5. What do you know about EYX?
6. What do you think will be your role?

All the 4 students were offered 6 months Intern + FTE offer.

Important Tips:
1. This company focuses majorly on DSA, General Aptitude and Puzzles.
2. Refer to this link for puzzles - https://www.geeksforgeeks.org/puzzles/
   This will be more than enough. In every round you'll encounter at least 2 of them.

All the best :)