

Microsoft Interview Experience | On-Campus for Internship

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Round 1: Online Coding Test

I was in my T.Y. B.Tech. (Sem 5), when Microsoft visited our campus for offering 2 months summer internship.

First Round was online coding test on CoCubes Platform. Difficulty level of questions were easy to medium. 3 Coding questions were to be solved. Questions Were

1. A Number plate problem where only odd and even number plate vehicles can go out on a weekday. Given numbers of vehicle and schedule of odd/even on weekday, find maximum number of vehicles that can go out on a day.
2. A problem based on BFS of Graph. Similar to Rotten Oranges Problem.
3. Given a Singly Linked List, Reverse the linked list in place using $O(1)$ space.

Some Other Questions were

1. Reverse a Linked List in groups of size K
2. Some traversal problem based on BST and graph.

Nearly 25 students passed this round.

Round 2: On Paper Coding Round

Groups were formed and each group was assigned a mentor. We were supposed to explain the approach of problems given to our mentor and code on paper. Questions Were :

1. Check if a given Binary tree is a BST without using extra space.
2. Finding second maximum element of the array.
3. Find Depth of BST.

I found inorder traversal of the tree for first problem but no extra space was to be used. I reduced the space complexity to $O(1)$ but time complexity was $O(n)$. I found depth of BST using Recursion.

Nearly 15 students were selected for Face to Face interviews. I was one of them.

Round 3: Face to Face Interview

Questions asked during my interview were :

1. Write on paper code for Binary Search
2. Implement a Queue data structure using Stack data structure.
3. Write a code to heapify a array. It was basically a Heap Data Structure problem but I messed up here.
4. Asked about Dynamic Programming and a question to find longest palindromic subsequence.
5. ACID property of DBMS.

Only 5 people cleared this round and I was rejected after this.

My Personal Notes\narrow_drop_up

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