

## Microsoft Internship Experience | On-Campus

- Difficulty Level :[Expert](#)
- Last Updated :31 Mar, 2020

**Round 1:** It was an online round, having 3 programming questions to be solved in 1 hour and 30 mins, the questions were of average difficulty. All those who solved 2 questions out of 3 were selected for the next round.

**Round 2:** We had personal Interview in the second round, it started with my introduction and a brief discussion about my projects. Then the interviewer asked me two programming questions that I had to solve on paper. In the first question, I had to tell if a given linked list is a palindrome using  $O(1)$  space. I had to write the whole code, and they were checking for corner cases as well. In the second question, they gave me a matrix of 0s and 1s, and if a cell had zero then I was supposed to make the entire row and column as zero. I solved it in  $O(mn)$  time and  $O(1)$  space. Although I first told my brute force approach, after that I arrived at  $O(mn)$  but using  $O(n+m)$  space, and then I tried to reduce the space complexity to  $O(1)$ . The interviewer was impressed by my approach.

**Round 3:** It was another personal interview, here I was again asked a technical question. The interviewer gave me a use case, which came down to finding k smallest element in an array, it could be done by using a heap in  $O(n \log n)$ . But I wasn't able to answer this question, I gave him my brute force approach only. So I was rejected after this round.

My Personal Notes

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