

INTERVIEW EXPERIENCE – TRUMINDS

Name: **SARVESH SHARMA**

MCA (2022-24)

Round 1: Online Assessment (Duration: 90 Minutes)

- The online assessment was conducted on the HackerEarth Platform.
- Total No. of Questions = 17 (1 coding question + 16 MCQs)
- The MCQs were based on CS Fundamentals (Computer Organisation and Design, OS), Java, DSA basics, Aptitude, Logical Reasoning and Code Snippet Output (C#, Java), Linux commands of total 50 marks.
- There was one **Coding Question** based on Strings of 50 marks which is as follows:

Your friends and you are playing a game called Slice master. You are given a string S. The motive of the game is to slice String S into parts such that each letter appears in at most one part. After slicing, your total points will be calculated as follows:

For each part of length X, you will be allotted X square points.

Return the minimum possible points a player can score while playing Slice master with String S.

Note: The slicing should be such that a particular character is present in at max one part. For example, if part 1 has letters [a, m, i, g, o] then these letters cannot be present in any other part.

Find the minimum possible points a player can score while playing Slice master with String S.

28 Students were selected in this round.

Round 2: Technical Round Interview (Duration: 1hour)

The interview was conducted in offline mode.

The interview started with my introduction. The following questions were asked by the interviewer:

- Questions based on my Resume – about my projects, about the workshops and seminars I have attended.
- Differences between Stack and Queue data structures and their applications.
- N Queen problem for N = 4 (Not coding but where to place the 4 queens on the 16 squares).
- Questions from Computer Networks: Difference between ARP and RARP.
- User defined header files in C++.
- How much are you familiar with Linux and mention some of the Linux commands.
- 3 SQL queries using join and aggregate functions.

- Name some libraries in python you are familiar with.
- Area of interest.

8 students were eliminated after this round.

Round 3: Technical Round Interview (Duration: 40 minutes)

The interview was conducted in offline mode.

The interview started with my introduction. The following questions were asked by the interviewer:

- Questions based on my Resume – about my projects.
- What is memory leak?
- Application of stack data structure in programming.
- Write a code to print prime numbers in a given range (by all the methods you know).
- Write a code to insert missing number in an array which has number from 1 to 100 in an optimal way.
- Puzzle: There are three boxes. One box contains black marbles, one contains white marbles and the third one contains both white and black marble. But each box is wrongly labelled. You have to pick only one marble from any of the boxes so that you can tell which box contain which marbles correctly.

Verdict: Selected for Intern + FTE along with 14 others.