

Truminds Interview Experience (Internship + FTE)

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Round 1: Online Assessment (2 hours) – 12th October 2022

- Platform: HackerEarth
- 18 Multiple Choice Questions (based on Aptitude and Logical Ability, Time Complexity , Output questions, OS, DBMS and CS fundamentals)
- 1 Coding Question

Round 2: Technical Interview (45 mins) – 13th October 2022

The interviewer was at the position: Senior Technical Lead

- Platform: Microsoft Teams

1. The interview started with an introduction.
2. Brief discussion about my projects and one among them was discussed in detail.
3. Asked me in which language I am comfortable with.

4. OOPs:

- What is a friend function?
- What is a virtual function? Why do we use it?
- What are pure virtual functions?
- Questions on access specifiers in C++.

5. Coding Questions:

I was instructed to open any IDE.

- Given a string, remove all the duplicate characters and return the resulting string.
For example: Hello World -> Helo Wrd
- Given a Singly Linked List and an Integer Value, remove all the nodes that contain the value. The reference to the head node was a Double Pointer (The interviewer asked pointer concepts while I was coding).

6. Operating System:

- Scheduling Algorithms.
- What are Deadlocks? How to deal with it if one occurs?
- Difference between Processes and Threads.

7. Networking:

- Difference between TCP/IP and OSI.
- Protocols used in different layers of TCP/IP model.
- Difference between Router, Switch and Gateway.

Round 3: Leadership Discussion (40 mins) – 14th October 2022

The interviewer was at the position: CTO

- Platform: Microsoft Teams

1. The interview started with an introduction.
2. Discussed projects in depth.
3. What are AVL Trees? Given 1000 nodes in an AVL Tree, approx how many searches we have to perform to delete a node in the worst case scenario (It is a leaf node)?

4. Given two Linked List, Singly and Doubly each. A pointer to a random node (anywhere in between) is given that needs to be deleted. In which type of list the operation would be costlier and why? (Discussed only approach)
5. Types of Polymorphism and how to achieve them?
6. What is IPC? Different methods through which the processes communicate.
7. Pipes vs Sockets.
8. TCP vs UDP.
9. Difference between IP and MAC Address.
10. How to resolve MAC Address from IP Address.
11. **Why Truminds?**

TIPS:

- ★ You should have in-depth knowledge about topics related to your projects.
- ★ Have good knowledge of CS core fundamentals.
- ★ Make sure to ask ample amount of questions required to begin with hands-on coding.
- ★ It's okay to not know every answer. Try to ask for hints, that might lead you towards the answer.
- ★ Try to give real life examples related to concepts asked.
- ★ Have good communication with CEO or CTO in the leadership round.
- ★ Just be yourself.

ALL THE BEST

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