

## **Interview Experience – Tekion (Associate Software Engineer)**

### **Company & Role**

- **Company:** Tekion
- **Role:** Associate Software Engineer

### **Online Assessment**

- **Format:** 22 Questions (2 DSA + 20 MCQs)
- **DSA Questions:**
  - 1 Easy level
  - 1 Intermediate level
  - Topics: Dynamic Programming
- **MCQs:** Based on Computer Science fundamentals and programming concepts

### **Technical Interview – Round 1**

- **Flow:**
  - Interviewer introduced himself and asked for my self-introduction.
  - Asked about my favourite subject → I answered Algorithms and DBMS.
- **DSA Questions:**
  - Find the Nth node from the last in a linked list.
  - Given a matrix, print in spiral form.
  - Perform BFS and DFS traversal in a graph.
  - Given a BST, retrieve elements in ascending and descending order.
  - For each problem → discussed time and space complexity.
- **DBMS Questions:**
  - Joins and their types with working.
  - Difference between B, B+, B- trees.
  - Indexing vs Cursor.
- **Other Questions:**
  - Asked what I know about the company.

**Important Note:** The interviewer asked questions primarily from my favorite subjects and my resume.

## Technical Interview – Round 2

- **Flow:**
  - Interviewer introduced himself and asked for my self-introduction.
  - Picked a project from my resume → discussion for about 1 hour.
- **Project Discussion:**
  - Explained the working principle and logic.
  - Walked through the architecture diagram.
  - Gave an overview of each module in detail.
  - Interviewer asked about deployment at large scale → explained fully.
- **DSA Question:**
  - Problem similar to Number of Islands, but with all 8 directions considered.
  - Explained the logic and discussed time & space complexity.

## HR Interview

- **Flow:**
  - HR introduced herself and asked for my self-introduction and project overview.
- **Questions:**
  - What do you know about the company?
  - Why didn't you do an internship?
  - Many candidates are outside who are well-versed, why should we hire you?
  - Do you have any questions for us?
- **My Question:**
  - I asked: *"Will any program be arranged for freshers to get trained?"*
  - HR explained about the training program and the company culture.