Placement Interview Experience

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Department: Computer Science and Technology

Batch: 2022

Company Name: Deutsche Bank
Job Role: Graduate Analyst

Domain of Your Role*(Software Development/Consulting/Core Electronics, etc)***: Software**

Interview Process*(How many rounds were there and what were the rounds?)*:

5 rounds were there. An online test followed by 4 Interview rounds.

Questions asked in the each stage of the process:

Round 1 - Online Test:
        There were 3 coding questions. 1 easy, 1 medium-easy and 1 medium level question.
Solved all three questions completely and was shortlisted for further rounds.

Round 2 - Technical Round 1: (45 Minutes)

1. Introduce yourself. (Here I mentioned MongoDB, NodeJs in which I had worked on)
2. Give a brief Introduction on MongoDB.
3. What is the difference between RDBMS and MongoDB?
4. Is Primary Key mandatory in SQL. What if we don't use the primary key in the table?
5. Delete duplicate rows from a table (SQL query).
6. Why is MongoDB faster than SQL? If we store the same data in MongoDB and SQL server, will MongoDB work faster for queries(retrieving data) than SQL.
7. What is Multithreading? Is NodeJs Single-threaded or Multi-threaded ?
8. Implement Tree Traversal Methods(Inorder, preorder, postorder). Do it using the iteration method.
9. Any question you want to ask: I asked , what will be the primary responsibility of the freshers immediately after joining the company.

Round 3 - Technical Round 2: (around 1 Hour 15 minutes)
1. Introduce yourself. (I didn't mention MongoDB, NodeJs anymore)

2. What is the difference between Heap and Priority Queue?
3. What data structures are you familiar with?
4. Implement MergeSort (She told me to open Codechef IDE and write code there and run with test cases).
5. Explain Greedy Approach. How do you decide whether a problem can be solved by DP or not?
6. Implement Coin Change Problem. (In Codechef IDE).
7. What are OOPs in C++?
8. What is the difference between Abstraction and Encapsulation. Explain with an example.
9. Explain access specifiers.
10. What is the difference between function overloading and function overriding?
11. What is Normalization and Denormalization? What are the needs of these?
12. Given N strings each of length N. You have to create a string of length N which is different from any of the given strings. Can you do it in O(N).
13. Any question you want to ask: I asked , What is the difference between working in a Product Based Company and a Bank(like DB)?

Round 4 - Professional Fitment Round: (around 40 minutes)
1. Introduce yourself.
2. Why Deutsche bank? (over Product based companies)
3. What are your strengths and weaknesses?
4. What do you like to do in your spare time?
5. Do you have any plan to pursue higher study? Why? (as I said No)
6. Where do you want to see yourself 10 years from now?
7. Any question you want to ask: I asked , how is your experience in DB?

Round 5 - HR Round:
1. Introduce yourself.
2. Tell me about your family background. He asked me if any of my family members are involved in Politics or Administrative Service (Govt.).
3. Are there any mistakes you made that you regret frequently?
4. Suppose you are leading a project. So will you focus more on leading and managing the group or contribute like other members of the group. What will you do if one of the group members does not work properly?
5. Any question you want to ask: I asked , In College we have so many events apart from academics. So, Is there anything like this in DB apart from office work?

Reason behind selection results(Which skills helped you the most to get the job?):
DSA, OOPS

Preparation Strategy(How did you prepare for the non-interview rounds? How did your preparation evolve for the interview rounds?):
Focused on the PPT session, that helped me a lot to manage a few answers.

Resources to prepare from -
    Necessary Resources*(Must Do)*:
1. Coding(Any platform, but try to practice regularly). Don't give too much time for a single problem which you can't solve. Instead, just go through the solution. But make sure you have tried to solve the problem.
2. have good depth in OOPs, SQL.
3. Basic DBMS, OS, Computer Networks.
4. 1 or 2 projects which you can explain for around 10 minutes. Also be prepared with the tools and technologies you used in your projects.

    Advanced Resources*(Can Do)*:
        Nothing More

Anything else that you'd like to share with the students:
    If you know the answer to the interviewer's question try to spend more time, else try to skip it (saying like you don't have sufficient knowledge on this as of now).

    And try to be honest and confident. If you don't know something, Just say it and give more time to the interviewer to ask another question.
    Be attentive in PPT sessions and note down few things like latest products or core values or anything in which the HR focuses more. It will be helpful in the HR round.