Placement Experience with Amdocs

Interviewee 1:

Round 1: Online round; consisted of around 50 MCQs, 2 coding questions and 2 SQL queries.

MCQs were based on topics like OOPS, OS, DBMS, UNIX, and some logical reasoning and English comprehensions.

Both the SQL queries were JOIN based. Coding questions were of medium level.

Round 2: Technical round; was mostly based on the core subjects.

Was asked to introduce myself and brief the interviewers about my CV.

Some of the questions that I remember from the round were:

- SQL queries like join, distinct, group by, etc.
- Unix commands like grep, chmod, ls, cd, mkdir, cat, etc.
- Discussion on projects mentioned in the CV, the tech used, challenges faced, experience working in a team.
- Discussion on some ML algorithms, as my project was ML based.
- OOPS topics like singleton class, diamond problem, inheritance, virtual functions, etc.

Some basic coding questions:

- Find the sum of a subarray in an array.
- Cycle detection in a linked list.

Round 3: HR round; general discussion for 20 mins.

Discussion about family background, why amdocs, experience working in a team, and some typical HR questions.

A puzzle was also asked in this round:

- Suppose the whole world goes black and white, then how'd the traffic signals work?
- *Answer:* Assign some shapes to the signals, eg., square for red, circle for orange and triangle for green.

Interviewee 2:

1st round: online test (aptitude, English, technical aptitude, SQL and programming codes, output based)

2nd round: technical interview

1. asked to introduce myself...I gave an introduction describing about my soft and technical skills. I also focused my introduction on the programming language I work to draw the interviewer's attention to it. Also described a bit about my major project.

2. The interviewer started with JAVA. Asked to code OOPS concepts(runtime polymorphism, interface, abstract class, method overloading, method overriding,create an overloaded operator) using JAVA on the coding window. Asked few JAVA concepts verbally.
3. Asked about my major project system architecture. Since the project is based on ML. Asked about ML libraries I used. Asked the different algorithm. Asked about CNN as it was a part of my project.
4. asked an approach to a DP based question: no of ways to reach a certain distance if a person can do certain no of jumps.

   I answered a brute force approach using recursion. Then he asked me how can it be made more efficient. Then I described the approach using DP.

5. asked various SQL queries: find second highest salary, few based on subquery and joins.

HR round:

It was a bit longer for me of about 45 minutes.

Asked 3 puzzles

i. how would the traffic light work if the world goes black and white

Ans) using some types of symbols

ii. how will you find out which 1 box is empty out 3 if the weight inside the box is 50 grams and box weighs 2 grams

Ans) using wind...the box without weight will blow away.

iii. how is it possible that a flight takes 1hr 30 min to reach a destination and while returning it takes 90 mins

Ans) because 1hr 30 mins is same as 90 mins, It was quite a vague question ;)

1. asked about my family
2. about my strength and weakness
3. location of my preference
4. why amdocs
5. will I leave the job if I find a different company with same profile and higher CTC
6. asked about how I manage the PCC work along with my own preparation.

Ended up gossiping over giving some life advices😅

This round was way cooler to be called as an HR round.

Interviewee 3:
Technical round:

1. Project discussion 15-20min
   - Motivation for project
   - Different libraries and methods used in project
   - Your role in project (if your project is a group project)

2. Coding problems:
   - Implement HashMap in java
   - Question like min no of steps required to reach destination from a source
   - Form a palindrome (GFG)
   - Armstrong number (code in java)
3. SQL:
   - DDL DML basic commands
   - find 3rd highest salary from a table
   - inner join-based questions
   - group by command related query (list duplicate rows from a relation)
4. Linux/Unix:
   - List Linux commands (like ls, cat etc...)
   - touch command
   - Vi editor (if you done shell scripting in previous semester/BCA)

HR round:

1. Introduce yourself
2. Why Amdocs?
3. Family background
4. Academic details
5. Weakness/ strength
6. Achievement(s) (if any)

Interviewee 4:

It was one-and-a-half-hour long interview, 2 interviewers were there.

First question: Which programming language you are comfortable the most with?

1. Then they asked purpose of some keywords: final, typedef, virtual, friend

2. How and where do we use CONST, Upcasting between classes, Interfaces.

3. What is a HashMap? do you know STL in C++... insert and delete elements in stack and in a vector of vectors using straight simple functions in STL.

like: v.push_back(element)

4. Types of access modifiers in C++ and their usage.

5. 2 problems to code using linked list:

   I.   delete all the repeating elements in a linked list
   II.   reverse a linked list

6. Code: Reverse the words in a sentence

For e.g., my name is khan becomes ym eman si nahk

7. Do you know OOPS concepts? tell 4 of the main characteristics

8. Usage of Operator overloading and overriding in Java Vs C++

9. Classes vs Structures.

About things mentioned in the Resume and projects:

10. Can you code a website using your knowledge of HTML and CSS, how well do you know Java script (I had mentioned HTML and CSS in Resume)

11. Asked some simple Linux commands:

List, Copy, remove all subdirectories, show common text in 2 files, find particular pattern for finding the filename or text

12. Brief us about your contribution to the project also its importance and usage. (I had 3 projects, I told them 2 are kind of guided projects through Internet and were solely completed by myself, so I chose the semester's research paper-based project as it was done in a group from scratch)

13. About the achievements (co-curricular activities)

14. You have mentioned Python in your projects so how is it different/better than other languages.

15. Basic questions on data types, initialization, slicing of lists and dictionaries, using CSV files, Machine learning with python.

15. Do you know SQL well? then some basic DDL, DML commands and their usage.

16. SQL query to find and update the incremented salary of employees of a particular department where no. of employees < 10

17. Query to delete duplicate rows

18. Some tough SQL queries:

   I.   Find the last 2 and first 2 rows and store them separately
  II.   Find the nth highest salary from the bottom

HR round:

1. Introduce yourself
2. Why Amdocs?
3. Family background
4. Academic details
5. Weakness/ strength
6. Achievement(s)

Interviewee 5:
Technical round:

1. Project discussion.
2. Motivation behind project.
3. Conflict resolution within group.
4. Situation based questions on project.
5. After that, the whole interview revolved around SQL queries for around 40mins.

HR round:

1. Why Amdocs?
2. Family background...
3. Academic history.
4. Strength weakness.
5. Achievements.

Interviewee 6:

Technical Interview Experience

1. Introduce yourself
2. What projects have you done? (Brief summary of projects)
3. What language are you comfortable in?
4. How is python different from C++?
5. What are tuples in python?
6. What are lists in python? How are they different from tuples?
7. Dictionaries in python
8. What are natural joins in SQL?
9. Other types of joins in SQL (describe each)
10. What is PL-SQL? Why is it needed?
11. What is a cursor?
12. Difference between DROP, TRUNCATE and DELETE commands.
13. Function of UNION command
14. Difference between UNION and UNION ALL.
15. 4-5 SQL queries
16. 3 basic programming questions: reverse a string, Armstrong number, remove spaces between words from a sentence.

HR Interview

1. Introduce yourself
2. Family Background
3. Strengths and Weaknesses
4. Biggest achievement in life
5. Why Amdocs
6. Any queries for them

Interviewee 7:

The round started with a brief introduction. It was followed by an in depth questioning round related to my projects. Some of them are:

1. What is Machine Learning?
2. What is Support Vector Machine?
3. How we choose the hyperplane in SVM?
4. Why you chose Decision Tree?

5. Tell the Pros and Cons of using Decision Tree.
6. Difference between random forest and decision tree.
7. How did you do feature selection and how you decided the weightage of each feature?
8. How did you perform sentiment analysis?
9. How are you planning to tackle the privacy issue in your project?
10. What if one of your project members does not do things on time?

Then, they asked me to solve two simple coding questions to check my coding skills. This was followed by questions from Unix, SQL, and Python.

1. Write a shell script to display the names of the file that do not have your name in their filename.
2. Write a shell script to display the names of the file that do not have your name in them.
3. Write an optimized SQL query to find the name of the employee who has the fourth highest salary (not using nested query).
4. Use of TOP, LIMIT commands in SQL.
5. Difference between RANK and DENSE_RANK in SQL?
6. Difference between find and locate in UNIX?
7. What is the use of netstat and tracert command?
8. Difference between tuples and lists?

As I have mentioned MongoDB in my resume, they asked questions from it, also:

1. How data is stored in NoSQL?
2. What are documents, collections?
3. What is CAP theorem?

HR Round

1. Introduce yourself.
2. How many siblings do you have?
3. Rapid fire questions related to my education (school/college, subjects, grades)
4. Why Amdocs?
5. What are your strength and weakness?

Interviewee 8:
Technical Round

It was about 1 hour long

1. Approx 30-35 minutes spent on my projects which I mentioned in resume
- Motivation behind project
- Situation based questions
- my role in major project
- challenges, benefits

2. Unix
- which basic command u know
- do you know about sudo command
- find substring "AMDOCS" from different sub-directories

- significance of pipe symbol
- significance of grep function
- role of shell in operating system

3. DBMS/SQL
- Difference between DELETE, DROP, TRUNCATE
- from WHERE and HAVING which is better
- delete Duplicated rows from table
- Alter command
- Difference between DDL and DML commands

In which language you are comfortable java or C++

Practical implementation:

1. Find number of words in string

2. 3/4 commands of SQL

Behavioural Questions

- Strength
- weakness
- hobbies
- what you know about AMDOCS
- why AMDOCS
- Achievements
- Co-Curricular activities

HR ROUND

1. Family Background
2. Related to my schooling and graduation (year of passing, grades)
3. Any gap between studies
4. why AMDOCS
5. Biggest Achievements
6. Do you have any sibling in AMDOCS?
7. Do you have any questions?

Interviewee 9:

Technical Interview: 45-50 min

1. Introduction
2. Projects (5 - 10 min), their basic introduction, motivation, are they usable in real environment.
3. Internship (20 min), type of work, their technology (in detail), what I learned from there.
4. Oops concepts with example.
5. Questions related to Data Structures like why we use a specific ds, difference between different types of ds.
6. Algorithms of different search algo, their complexity and dry run.

7. SQL and DBMS - SQL injection and their prevention methods, securing database while working in a company, retrieve data while joining tables, view, aggregate functions, stored procedures.
8. Non-technical questions on my interests.

HR Interview

1. Introduction about me and family.
2. Why I want to join Amdocs.
3. Where I see myself in 5 years.
4. Strengths and weakness.