Mr. Cooper Interview Process Experience

1. Online Coding – 3 Medium Level questions, Mcq’s on SQL, DS, OOPS, CD, Aptitude.
2. Long-Long Coding
   1. We were given a paper that has some features about Project Task Management. We were asked to draw a UML diagram to explain, the logic to approach the problem. Here they will check your ability and approach to solving a problem. To draw ER diagram they have given 1 hour.
   2. Then we were asked to develop an application from what we have drawn. This is to understand our implementation and understanding of the problem’s solution. I have developed the console application using Python (we can use any language). They are not concerned about the output of the program, They just want to know how we are implementing our solution. This is to be done in 1 hour.
3. Technical Interview 1:
   1. Here they have asked questions on DS, OOPS, SQL, and Full stack development(Since I have mentioned that I have good knowledge of it.)
   2. OOPS INTERVIEW QUESTIONS:
      1. What are different OOP concepts?
      2. Why oops are needed?
      3. What is Encapsulation? How you are going to do it, its uses?
      4. Polymorphism, Types of Polymorphism, and Examples
      5. Inheritance, Implement a code(any language) to represent it
      6. Code to represent all OOP concepts
      7. Abstract classes?
      8. Keywords to implement Abstract classes, Inheritance
   3. DS INTERVIEW QUESTIONS:
      1. Use of DS
      2. Types of DS
      3. Explain concepts of non-linear DS
      4. Linked lists, code logic to perform operations on linked list
      5. Stack, Code to perform Operations of the stack.
   4. DBMS:
      1. Joins, Types of joins
      2. They gave me two tables and asked me to perform joins by writing a query.
      3. What keyword is used to find the unique names in the student details table?
      4. Classifications of SQL (DDL, DML...)
   5. Programming Based:
      1. Program to print all array elements without keywords.
      2. I have used a while loop for i Question so, asked me why had I used while, Can’t we use it for a loop?
      3. Difference between while, do while for loop
      4. Reverse array without loops and it must be in O(N)
      5. Using array is better or linked list is better?
      6. What is dynamic memory allocation what concepts are used to handle it.
   6. Full Stack Development(FSD):
      1. What is FSD?
      2. What are the stages in FSD
      3. What technologies are used in the front end, and back end?
      4. How to connect to the database.
      5. Since I told that I use “React js” for UI, and” Graphql” to perform API integrations, I was asked several questions on how to integrate UI and how API calls are made by giving real-time examples.
      6. Questions related to UseEffect(), UseState(), UseLocation()
      7. How to pass parameters while redirecting to the next page?
      8. After calling an API how to fetch and use those results (items)
4. Technical Interview 2(Asked to write codes on paper almost for every question) :
   * 1. Reversing a linked list
     2. Given a tree, asked me to write traversals(inorder,preorder,postorder)
     3. Infix to postfix conversion
     4. Given a statement {[]()} it must print true , {[](){ }{( must return false ( used concept of stack)
     5. Traversing through linked list techniques
     6. Finding middle element in LL( used rabbit-tortoise algorithm)
     7. Collections in Java
     8. I want to create two tasks for a project using classes and how to code it (Used java ArrayList concept. We can also use structures)
5. HR Interview:
   * 1. About my projects and my involvement in projects
     2. What I have learned from my internship?
     3. About the mentioned qualities in my resume.
     4. Saw 10, inter, BE cgpa’s and asked if I am a topper( This is asked to test if you are Overconfident about yourself. The answer must be reasonable explaining that you are not a topper but one among the students that studies well)
     5. About my expectations on company, Work location I am comfortable with.
     6. Interview took an end with the question if I have any queries !!

Total interview process took around 2 and half hours. Final result was selected.