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Microsoft Interview Experience | Senior Software Engineer (4 Years Experienced)

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I recently interviewed with MS Hyderabad for Core Services Engineering team. Please find the questions asked below

Round 1

1. Two tables employee (contains name and Id) and employee details having work experience history (contains Id, fromYear, toYear) find out all the employees who worked w/o career break.
2. Java implementation for the same.
3. From the same table list the name, fromYear, toYear for all employee.
4. Dependency Injection.
5. Design patterns.

Round 2

1. PostOrder traversal of BST iteratively.
2. Given two very large files first contains Id and name, another one contains Id and address you need to create 3rd file which will contain id, name, and address. - First, ask the clarifying questions and then tell the approach.

Round 3

1. What is microservice? And a lot of discussion around microservice vs monolithic. Advantages and disadvantages of both the architectures.
2. Cloud design patterns.
3. A lot of discussion around performance and Performance Metrics of your service.
4. If you multiply a 4 digit number abcd by 4, it produces another number dbca. Solve for a, b, c, d. These belong to [0-9] And all are distinct.

Round 4 (Hiring Manager) In this round, the whole discussion was around my current project, its scalability and security issues. Also some design principles like types of caching and when to use which one, the difference between sql and nosql were asked.

My Personal Notes

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