**Microsoft**

**Tech Stack** : Frontend – Typescript,React

**Backend**- C++,C#

**Cloud**- Azure

Mono repo code

Microsoft (India) offices- Noida,Hydebd, Banglore

The interview process at Microsoft typically involves several rounds. Here’s a breakdown of what you can expect:

1. **Coding Round**:
   * You’ll be given a coding challenge. For example, you might need to determine the frequency of a given character in a sorted string with specific time and space complexities.
2. **System Design Round / High level –Low level**
   * You’ll discuss system design. A common task could be designing an Airline Booking System, considering aspects like search implementation, database choice, handling concurrent booking requests, and cancellation flow.
3. **Performance Round**:
   * You’ll address scenarios like UI freezes. For instance, if a user clicks a button and the UI freezes for a minute, you’ll explore reasons and propose solutions.
4. **Behavioral Round**:
   * This round focuses on getting to know you as an individual. Expect questions about past projects, challenges faced, and how you handle disagreements.

* Excellence in software engineering practices.
* Knowledge of software QA methodologies, tools, and processes
* Excellence in software engineering practices, coding with strong testing, debugging and analytical skills
* Strong knowledge of software QA methodologies, tools, and processes.
* Proven ability to plan, schedule and deliver quality software
* Strong knowledge in Software Development Life Cycle (SDLC) and Testing Life Cycle (STLC).).
* designing and developing framework from scratch.
* Cloud technology like Microsoft Azure and CD/CI Pipelines using VSTS.
* Developing selenium script as per test cases, Setup automation environment and test framework
* Having good knowledge of API Testing/ Web Service testing using Postman
* Hands good knowledge of Automation testing using Selenium (Web driver) Automation and appium Tool.
* Experience in GUI Testing, Functional Testing, Regression Testing, Re-Testing and System Testing, Compatibility Testing.
* CI/CD pipeline
* Having sound knowledge of Docker and containers and Linux System.
* Having sound knowledge of Jmeter and Visual Studio performance testing tool.
* Having good knowledge of Database and SQL concept.
* Having good knowledge of Core Java, C#, TestNG, Munit, Nunit, Build Tool like Maven
* Having good knowledge of scaling of test cases using Selenium Grid.
* Preparation of test Scenario and test cases.
* Strong knowledge of software QA(Quality assurance) methodologies, processes, and tools.
* Experience writing concise, clear, and comprehensive test plans and text case and strategy
* Hands-on experience with black box testing and white box testing
* Solid knowledge of scripting and [SQL](https://www.naukri.com/code360/library/sql-introduction)
* Experience working in a scrum/agile development process
* Testing Scenarios - Stress testing,Negative testing,Portability of machines-configs(Nework/Os undertsanidng), Performance(resource allocatn,CPU)
* Any certificate -AZ203 - Azure Developer Associate

**3Coding Questing – 1hour or 90 minutes (DSA)**

**Topics** :

* [IP address,](https://www.geeksforgeeks.org/program-to-validate-an-ip-address/)Nodes,Linked List –Very imp,Stack,Queue,heap –Imp,Binary Trees,Rotated Array,Matrix,HashMap,Graph,
* String(v v imp)-string manipulation,removing duplicates from string,paranthesis,anagrams
* What is binary tree and how do you swap nodes
* Linked lists, Factorial, Behavioral Lunch, Testing Concepts
* Quick sort
* Riddle

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[Detailed- Interview Process](https://www.jobtestprep.com/microsoft-interview-process)

[**Microsoft Test Series**](https://www.geeksforgeeks.org/courses/microsoft-test-series)