Q1. Tell me about yourself.

I’m Muzahidul Islam, a final-year B.Tech student in Computer Science at JSS Academy of Technical Education, Noida, with a CGPA of 8.1. I have strong foundations in DSA, OOP, and system design. I’ve built projects like SaaSfy, an AI-powered SaaS platform; ChattConnect, a real-time chat app; and a University Management System in Java. I also interned at Lavekart, where I improved workflow efficiency by developing order tracking and billing features. I’ve solved 500+ coding problems on LeetCode and CodeChef and participated in the Smart India Hackathon 2023. I’m passionate about backend development, cloud solutions, and writing clean, efficient code.

Q2. Can you walk me through your project ChattConnect?

ChattConnect is a real-time chat application built using MongoDB, Express.js, React.js, Socket.IO, and JWT. - Designed the backend using REST APIs and WebSockets for high concurrency. - Implemented one-to-one and group messaging with persistent message storage in MongoDB. - Used JWT for authentication and optimized the schema for scalability. This project gave me hands-on experience with real-time systems, authentication, and scalable backend design.

Q3. Explain Object-Oriented Programming (OOP) principles with examples.

The four key OOP principles are: - Encapsulation → Wrapping data and methods in a class. - Abstraction → Hiding implementation details. - Inheritance → Reusing properties and behaviors of a parent class. - Polymorphism → Same method name behaving differently. I applied these in my University Management System, where Student, Faculty, and Course classes used inheritance and polymorphism for modularity.

Q4. What’s the difference between SQL and NoSQL databases?

- SQL: Structured, relational, ACID compliant, best for structured data. - NoSQL: Schema-less, document or key-value based, highly scalable, best for unstructured data. In ChattConnect, I used MongoDB for dynamic chat messages. In University Management System, I used MySQL for relational data.

Q5. Tell me about a challenge you faced in your internship.

At Lavekart, while implementing the billing system, invoices weren’t updating correctly in the database. I debugged SQL queries, identified transaction handling issues, and refactored the backend logic. After thorough testing, billing accuracy improved, reducing customer complaints. This taught me attention to detail, systematic debugging, and validation with test cases.

Q6. How do you approach solving a coding problem?

My approach: 1. Understand the problem. 2. Identify constraints and edge cases. 3. Think of brute force and optimize. 4. Choose data structures and algorithms. 5. Write clean, modular code. 6. Test with edge cases.

Q7. What is Docker, and why did you use it?

Docker is a containerization tool that packages applications with dependencies, ensuring consistency across environments. I used Docker while experimenting with backend services to create lightweight containers for Node.js and Flask apps, manage dependencies, and prepare for cloud deployment.

Q8. Describe a time when you worked in a team.

During Smart India Hackathon 2023, I collaborated with a team on problem statement SIH-1326. We divided tasks, communicated regularly, and used GitHub for version control. When a teammate faced API integration issues, I stepped in to debug and suggest alternatives. This experience improved my teamwork, communication, and leadership skills.

Q9. What are REST APIs, and how do they work?

REST APIs follow the Representational State Transfer style: - Use HTTP methods like GET, POST, PUT, DELETE. - Are stateless. - Exchange data typically in JSON or XML. In SaaSfy, I built REST APIs for integrating AI services like Clipdrop and Gemini, making the app modular and scalable.

Q10. How do you handle communication gaps or nervousness in interviews?

I take a pause before answering to organize thoughts. If I don’t understand a question, I clarify instead of guessing. I also use STAR format to structure responses. Regular mock interviews and daily English practice help reduce hesitation.

Q11. Where do you see yourself in the next 3–5 years?

I see myself as a skilled Software Engineer working on scalable products and distributed systems. I aim to deepen expertise in backend development, cloud computing, and system design while mentoring juniors.

Q12. Why should we hire you?

I bring strong fundamentals in DSA, OOP, and system design; hands-on experience in building real-world applications; proven problem-solving skills from 500+ coding problems; and a mindset of continuous learning, adaptability, and collaboration. I’m confident I can contribute value to your team while growing as a professional.