

# Mohammad Ahsan Reza

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## SUMMARY

Associate-level Backend Software Engineer with experience in enterprise application development and AI-driven backend systems. Strong foundation in Java, Python, SQL, data structures, and system design fundamentals. Hands-on in building scalable services, REST APIs, and performance-optimized backend logic within Agile environments. Highly motivated to work on distributed systems and actively building skills in Kafka, AWS services, DynamoDB, and cloud-native architectures.

## EXPERIENCE

### **Tata Consultancy Services (TCS) — Systems Engineer (Nov 2024 – Present)**

- Designed and developed scalable backend services for enterprise applications using Java, Python, and SQL.
- Implemented RESTful APIs, enhanced backend logic, and improved system reliability, latency, and performance.
- Worked on debugging, troubleshooting, and production issue resolution to ensure high availability systems.
- Collaborated with cross-functional engineering teams in Agile/Scrum delivery cycles.
- Participated in code reviews and followed best practices for maintainable, testable code.
- Built strong understanding of system design fundamentals, networking basics, and deployment workflows.

## PROJECTS

### **AI-Powered Compliance Automation — RAG System**

- Built a scalable backend pipeline for document ingestion and retrieval using Python, FAISS, and MiniLM embeddings.
- Designed data processing services for chunking, indexing, and summarization, reducing manual review effort.
- Implemented asynchronous workflows and optimized data flow for performance and reliability.
- Gained exposure to distributed system concepts, caching strategies, and backend optimization patterns.

## TECHNICAL SKILLS

**Programming:** Java, Python,

**Backend:** REST APIs, Microservices fundamentals, Debugging, Performance Optimization

**Databases:** MySQL, SQL, Data Modeling basics

**Distributed Systems:** Kafka fundamentals, Message Queues, Caching (Redis/Elasticache concepts)

**Cloud & DevOps:** AWS fundamentals, Git, CI/CD awareness

**Core CS:** Data Structures, Algorithms, Operating Systems, Computer Networks

## EDUCATION

Pranveer Singh Institute of Technology, Kanpur (2020 – 2024 | CGPA: 7.33 / 10)

Bachelor of Technology — Electronics & Communication Engineering