# Mohammad Ahsan Reza

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## SUMMARY

Software Development Engineer with 1+ year of experience building scalable backend systems in Java and Python. Strong in REST APIs, SQL, and distributed system fundamentals with hands-on exposure to data pipelines, asynchronous processing, and cloud-native architectures. Proven ability to solve complex problems using data-driven approaches in Agile environments.

## EXPERIENCE

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

• Designed and developed scalable backend services using Java, Python, and SQL.

• Built and optimized RESTful APIs to improve system reliability, latency, and throughput.

• Solved complex production issues through data-driven debugging and root-cause analysis.

• Contributed to distributed system workflows including message queues, caching, and async processing.

• Collaborated with cross-functional teams in Agile/Scrum to deliver features in ambiguous environments.

• Supported build, testing, and deployment pipelines to improve operational stability and compliance.

## PROJECTS

AI-Powered Compliance Automation — RAG System

• Built a document ingestion and retrieval pipeline using Python, FAISS, and embedding models.

• Designed data processing services for chunking, indexing, and semantic search.

• Implemented asynchronous workflows to improve scalability and fault tolerance.

• Applied caching and performance optimization techniques to reduce response time.

• Gained hands-on experience with distributed system design patterns and backend architecture.

## TECHNICAL SKILLS

Languages: Java, Python, SQL

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

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

Data & Systems: Data Modeling basics, ETL concepts, Information Extraction, Search & Retrieval

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

Core CS: Data Structures & Algorithms, Operating Systems, Computer Networks, System Design fundamentals

## EDUCATION

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

Bachelor of Technology — Electronics & Communication Engineering