

MOHAMMAD AHSAN REZA

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SUMMARY

Software Development Engineer with 1+ year of experience building and scaling backend systems in distributed environments using Java and Python. Strong in REST APIs, data-driven problem solving, and system reliability, with hands-on exposure to asynchronous processing, message queues, and cloud-native architectures. Proven ability to solve large-scale, ambiguous problems in Agile teams while maintaining operational excellence, security, and compliance.

EXPERIENCE

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

- Designed and developed scalable backend services in Java and Python for distributed system workflows.
- Built and optimized RESTful APIs focusing on performance, latency, and reliability.
- Solved production issues using data-driven debugging and root-cause analysis.
- Contributed to asynchronous processing pipelines using message queues and caching layers.
- Supported build, testing, and deployment pipelines ensuring security and compliance.

PROJECTS

AI-Powered Compliance Automation — RAG System

- Designed a large-scale information extraction and retrieval system using Python, FAISS, and embeddings.
- Built distributed ingestion pipelines for semantic search.
- Implemented async workflows to improve scalability and fault tolerance.

TECHNICAL SKILLS

Languages: Java, Python, SQL

Backend: REST APIs, Microservices fundamentals, Performance Optimization

Distributed Systems: Kafka fundamentals, Message Queues, Caching

Cloud: AWS fundamentals, Git, CI/CD awareness

Core CS: DSA, OS, CN, System Design

EDUCATION

Pranveer Singh Institute of Technology, Kanpur

B.Tech — Electronics & Communication Engineering | CGPA: 7.33/10