# Atul Singh

Bangalore, India — natul0636@gmail.com — +91-9535396162
LinkedIn: linkedin.com/in/atulsingh0636 — GitHub: github.com/AtulSinghRathore

## Professional Summary

Java Backend Engineer with nearly 5 years of experience building scalable backend services, REST APIs, microservices, and event-driven systems across trading, banking, payments, and e-commerce domains. Strong hands-on experience with Java, Java 17, Spring Boot, Kafka, PostgreSQL/SQL, Docker, Kubernetes, Jenkins, GCP, CI/CD, Splunk log analysis, API performance tuning, production support, and cloud-native backend development. Currently contributing to React and TypeScript frontend modules for API integration, UI enhancements, and backend-driven feature delivery.

## Professional Experience

**Morgan Stanley — Software Engineer / Java Backend Engineer** **Jul 2025 – Present**
*Trading Platform & Financial Technology Systems* Bangalore, India

- Developed backend services for trading platform applications using Java, Spring Boot, REST APIs, SQL, and microservices-based architecture.
- Designed and enhanced event-driven workflows using Kafka for asynchronous service communication, scalable processing, and reduced service coupling.
- Reduced critical position-fetching REST API response time from around 2200 ms to nearly 200 ms by migrating complex interdependent stored procedure logic into Java service layers, simplifying database access and improving maintainability.
- Modernized legacy backend logic by moving business rules from stored procedures into maintainable Java service layers, improving change management and reducing dependency on database-side logic.
- Worked with PostgreSQL and relational databases for transaction-heavy workflows, SQL query optimization, reliable data access, and backend performance improvements.
- Improved API performance and operational reliability by analyzing Splunk response-time logs, optimizing service-level validation, data processing, and database interaction patterns.
- Worked on cloud-native deployment and release workflows using Docker, Kubernetes, Jenkins, and GCP for scalable application delivery and release stability.
- Contributed to frontend modules using React and TypeScript for API integration, UI enhancements, and backend-driven feature delivery.
- Collaborated on platform modernization initiatives involving API standardization, observability, distributed tracing, production support, root-cause analysis, and operational reliability improvements.

**Infosys — Lead Specialist Programmer** **Oct 2023 – Jul 2025**
*Payment Processing Platform* Bangalore, India

- Built scalable Java and Spring Boot backend services for enterprise payment processing workflows involving validation, transaction processing, and downstream system integration.
- Implemented asynchronous processing patterns using Kafka and messaging-based communication to improve scalability, reliability, and fault tolerance.
- Designed retry handling, idempotent processing, and error-handling flows for payment-related backend services to reduce duplicate processing and improve system resilience.
- Developed and optimized REST APIs for payment platform integrations, improving service communication between internal and external systems.
- Worked with SQL databases for transaction data processing, query optimization, and reliable data persistence in high-volume payment workflows.

**Infosys — Software Engineer** **Jun 2022 – Oct 2023**
*E-Commerce Platform* Bangalore, India

- Developed Java Spring Boot microservices supporting catalog, pricing, and order management workflows.
- Built REST APIs and backend integration flows for service-to-service communication across e-commerce modules.
- Enabled asynchronous communication between services using messaging-based architecture, reducing tight coupling and improving scalability.
- Worked on SQL-based data access, backend validation, and API performance improvements for business-critical e-commerce features.

**Cognizant — Software Engineer Trainee** **Jan 2020 – May 2020**
*Full-Stack Training & Project Work* Pune, India

- Built full-stack application components using Java, REST APIs, Angular, React, HTML, CSS, JavaScript, and SQL as part of structured software engineering training.

## Technical Skills

**Languages & Full Stack:** Java, Java 17, SQL, JavaScript, TypeScript, Spring Boot, Spring MVC, Hibernate, JPA, REST APIs, JDBC, React, Angular, HTML, CSS, API Integration

**Architecture & Messaging:** Microservices, Distributed Systems, Event-Driven Architecture, API Design, System Modernization, Kafka, Asynchronous Processing, Retry Mechanisms, Idempotency, Fault Tolerance

**Cloud, DevOps & Databases:** GCP, Docker, Kubernetes, Jenkins, CI/CD, Cloud Run, PostgreSQL, MySQL, MongoDB, SQL Query Optimization, Relational Databases

**Observability & Engineering Practices:** Splunk, Grafana, Loki, Distributed Tracing, Production Monitoring, Log Analysis, Production Support, Root Cause Analysis, Incident Resolution, API Performance Tuning, Operational Reliability

**Domains:** Trading Platforms, Banking, Payments, E-Commerce, Financial Technology Systems

## Education

**Chandigarh University — B.E. in Computer Science** **2016 – 2020**

## Certifications

Microsoft Certified: Azure Data Fundamentals