

Rajat Kumar

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SUMMARY

Software Engineer with more than 3 years of experience in designing and scaling high-throughput, fault-tolerant distributed systems. Known for a strong ownership mindset and the delivery of high-impact solutions by driving end-to-end development and building systems from the ground up.

EXPERIENCE

Amazon

Software Development Engineer 2

Gurugram, India

Sept 2025 – Present

- **Engineered modernization of payment pipelines used by 10+ teams** under the SPEED program, enabling standardized, scalable, and compliance-ready processing across Retail, CorpEx, and Digital workflows.
- **Built and operated production-grade payment services** with end-to-end ownership of monitoring, alerting, automated rollbacks, and fault handling using AWS (Lambda, SQS, SNS, Fargate, CloudWatch), improving system resilience, observability, and operational reliability.
- **Reduced engineering development effort by 20%** by automating and optimizing payment pipelines, eliminating manual production deployments and strengthening internal compliance controls.
- **Accelerated compliance-driven change rollouts by 4x** by automating production deployment workflows, reducing merge from live turnaround time from **28 days to 7 days** while ensuring auditability and zero manual intervention.

Tiket.com

Software Engineer 1

Noida, India

Jun 2022 – Sept 2025

- **Achieved a 75% cost reduction** in onboarding new vendors (OTAs) by developing a common Integrator Framework, resulting in expanded inventory, enhanced customer options, and sustained GBV growth with each new vendor.
- **Optimized pricing strategies** for both B2C and B2B clients by developing a rate key distribution module that manages multiple rate keys from external vendors, tailored to specific user groups.
- **Slashed server costs by 40%** by leading a service migration to streamline processes and enhance monitoring capabilities (Grafana), resulting in improved resource management.
- **Elevated property reply rates from 25% to over 53%** by building an extranet email reply service that enhanced OTA partner communication with guests, reducing median chat response time from 31 to 4 hours.
- **Reduced PostgreSQL CPU usage by 80%** by designing a Change Discovery System (CDC) system for real-time inventory updates, ensuring data consistency across 10K+ properties.
- **Resolved 100% data inaccuracies** caused by a race condition in the sync cron job by introducing fine-grained locking and atomic operations, preventing over \$100K in annual losses from booking errors and refunds.
- **Increased test coverage from 80% to 94%** by adopting a Test-Driven Development approach and implementing unit tests, leading to the identification and resolution of a critical bug.

EDUCATION

Chitkara University

Bachelor of Engineering in Computer Science and Engineering (CGPA: **9.81/10**)

Chandigarh, India

Aug 2019 – May 2023

- **Coursework:** Data Structures, Algorithms, Databases, Computer Systems, Computer Networks

SKILLS

Programming Languages: Java (Spring Boot), C/C++

Backend & Frameworks: REST APIs, Microservices, API Design, LLD/HLD

Distributed Systems: Kafka, gRPC, Event-Driven Architecture

Databases: PostgreSQL, MongoDB, Redis, Elasticsearch (basic)

Performance & Scalability: High-Throughput APIs, CDC, Sharding, Circuit Breakers