

# Rajat Kumar

📞 +91-9812086406 | ✉️ rajatkansal2002@gmail.com | 🔗 LinkedIn | 🐙 GitHub

## SUMMARY

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

## EXPERIENCE

### tiket.com

Noida, India

*Software Engineer 1*

Jun 2023 – Present

- **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.

*Backend Engineer Intern*

Jun 2022 - May 2023

- **Integrated key system metrics** (API endpoints, event flows, Kafka, DB queries) to bolster observability and support data-driven debugging.
- **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

Chandigarh, India

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

Aug 2019 – May 2023

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

## SKILLS

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

**Backend & Frameworks:** RESTful 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

**Monitoring:** Grafana, Kibana

## ACHIEVEMENTS

- **Coding Contest Rating (1852):** Ranked in the top 5.9% globally out of ~700K participants through consistent performance in 90+ contests ([Profile](#)).
- **President, Computer Society of India (CU) (2021-22):** Led 10+ tech initiatives, organized 5+ coding competitions, and mentored 100+ students, fostering a strong technical community. ([See on LinkedIn](#)).
- **Bronze Medalist, NCC Run (2KM)** Chitkara University