

# RAHUL KUMAR

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## EXPERIENCE

### Software Engineer (Backend)

Apr. 2025 – Present

**Ocrolus** - Team Automation

India (Remote)

- Owned the **Template Parser Service (TPS)** for automated bank statement parsing, processing **220K+ daily requests** across **1800+ banks** and optimizing extraction logic to achieve **90%+** accuracy for the top 20 high-volume banks
- Resolved **15+** critical client-reported parsing failures, debugging extraction logic and deploying fixes to ensure reliability
- Developed the TPS monitoring module for the **Ready for Business (RFB)** synthetic testing suite in Java (Spring Boot) — safeguarding production health by detecting critical regressions instantly, enabling **zero-impact** rollbacks
- Architected **Ollie**, a RAG-based support chatbot using Python, LangChain, OpenAI embeddings, and PGVector — driving end-to-end delivery from HLD/LLD to production
- Designed infrastructure and load-testing pipelines for Ollie, reducing **p90 latency by 75%** and achieving **99.9%** request success rate at peak load
- Mentored an intern across TPS and Ollie, guiding them through design reviews, code reviews, and production debugging

### Software Development Engineer-I, Backend

Nov. 2024 – Mar. 2025

**Zomato** - Team OneSupport

Gurugram, Haryana, India

- Shipped features for **OneSupport**, a backend SDK powering post-order support across Zomato, Blinkit, District, and Hyperpure — including agent inactivity alerts, customer history tracking, and ticket automation enhancements
- Managed platform reliability via rotational **on-call**, resolving production incidents and sustaining 24/7 uptime
- Led the end-to-end integration of OneSupport SDK into the Merchant KAM app, launching automation-driven escalations to reduce manual intervention for high-priority tickets
- Drove infra cost optimization saving **\$84K+/year** — via SQS bulk fetching, pre-enqueue validations, merging low-usage workers, and archiving stale MongoDB data
- Patched a critical production **authorization** vulnerability flagged during compliance review, where Vendor Managers could access tickets outside their scope — affecting all platform users

### Software Development Engineer

Aug. 2023 – Oct. 2024

**Jio Platforms** - Team Jio Edge Cloud

Navi Mumbai, Maharashtra, India

- Designed and built a **datacenter management platform** in Go, replacing error-prone Excel-based provisioning with automated APIs — cutting Kubernetes cluster provisioning time by **70%** and eliminating manual errors
- Built REST APIs backed by MongoDB aggregation pipelines for datacenter inventory and cluster lifecycle management
- Integrated Cisco APIC APIs for real-time switch metadata ingestion, powering infrastructure monitoring dashboards
- Implemented **RBAC** using **OpenFGA**, replacing an all-access model with scoped, cluster-level permissions — enforcing resource isolation so only authorized users could access infrastructure, per compliance policy
- Developed a **cluster sharing** feature on OpenFGA's relationship model, enabling scoped access delegation across teams

## TECHNICAL SKILLS

**Languages & Frameworks:** Go, Python, C/C++, Java, Flask, Spring Boot

**Backend & Databases:** REST, gRPC, Microservices, PostgreSQL, MongoDB, Redis, Kafka, SQS, OpenFGA

**AI/ML:** LangChain, OpenAI, RAG, PGVector, Embeddings, LLM Integration

**Infrastructure & Tools:** AWS (S3, EC2, SQS), Docker, Kubernetes, Linux, GitHub Actions, Grafana, PagerDuty, Prometheus

## PROJECT

**Distributed API Gateway** | Go, Redis, Prometheus, Docker, WebSockets

Jan. 2026 – Feb. 2026

- Built a distributed API gateway in **Go** with JWT auth, sliding window rate limiting, and fail-open resilience — sharing state across horizontally-scaled instances via atomic **Redis Lua scripts**
- Implemented a **circuit breaker** to detect downstream failures and short-circuit requests, preventing cascading outages
- Integrated **Prometheus** observability and a real-time pipeline visualizer via **WebSockets** + Redis Pub/Sub
- Automated CI/CD with **GitHub Actions** running unit & E2E tests across 4 languages, containerized via **Docker**

## EDUCATION

**Indian Institute of Technology Indore**

Jul. 2019 – May 2023

B.Tech. in Electrical Engineering

Overall CGPA: 8.49

## ACHIEVEMENTS

- ICPC 2021:** Ranked **471 / 4990+** teams (top **9.4%**) in ICPC Preliminary Round
- CP/DSA:** Solved **1K+** problems on LeetCode(**rahul-rj**), Expert on Codeforces(**rahul\_rj**) & 4\* on CodeChef(**rahul\_rj**)
- MCM Scholarship:** Consistently recognized among the **top 10%** students each semester, receiving MCM Scholarship
- Research Publication:** Co-authored "LSTM Based Real-Time Transient Stability Assessment Using Synchrophasors," published at **IEEE GPECOM 2024**, Budapest