

RAHUL KUMAR

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EXPERIENCE

Software Engineer (Backend) <i>Ocrolos - Team Automation</i>	Apr. 2025 – Present India (Remote)
<ul style="list-style-type: none">Owned the Template Parser Service (TPS) for automated bank statement processing, resolving critical client issues and improving extraction effectiveness to 90%+ for top-tier banksBuilt RFB test suites in Java (Spring Boot) to continuously validate TPS behavior and trigger alerts on test failuresDesigned and developed a RAG-based chatbot (Ollie) for CX support, implementing vector embeddings and LLM-based retrieval from dataLed end-to-end delivery of Ollie, including HLD, LLD, infrastructure setup, load testing, and production readiness	
Software Development Engineer-I, Backend	Nov. 2024 – Mar. 2025
<i>Zomato - Team OneSupport</i>	<i>Gurugram, Haryana, India</i>
<ul style="list-style-type: none">Worked on OneSupport, a backend SDK powering post-order support across Zomato, Blinkit, District, and HyperpureLed SDK integration into the Merchant KAM (Key Accounts Manager) app, delivering features and fixes for rollout, improving ticket resolution metrics via automation-driven escalationsPlayed a key role in optimizing infra costs by \$7,000+ p.m. through efficient data management: enabling SQS bulk fetching, adding pre-enqueue validations, merging low-usage workers, and archiving old MongoDB dataResolved a authorization bug, preventing Vendor Managers from accessing tickets outside their scope, ensuring data privacy	
Software Development Engineer	Aug. 2023 – Oct. 2024
<i>Jio Platforms - Team Jio Edge Cloud</i>	<i>Navi Mumbai, Maharashtra, India</i>
<ul style="list-style-type: none">Built backend services for the Jio Edge Cloud platform, including a datacenter management tool that reduced cluster provisioning time by 70% by replacing manual workflowsDeveloped Go REST APIs backed by MongoDB, leveraging aggregation pipelines for efficient and scalable data accessImplemented fine-grained authorization using OpenFGA, enabling policy-driven access control across platform resourcesIntegrated Cisco APIC APIs to fetch switch metadata and expose it via internal backend servicesContainerized backend services using Docker and deployed on K8s, across VM-based and containerized environments	

EDUCATION

Indian Institute of Technology Indore <i>B.Tech. in Electrical Engineering</i>	Jul. 2019 – May 2023 Overall CGPA: 8.49
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PROJECTS

Online Chess Platform <i>ExpressJS, REST APIs, WebSockets, MongoDB, ReactJS</i>	Jun. 2021 – Aug. 2021 
<ul style="list-style-type: none">Built a real-time multiplayer chess platform using WebSockets to enable low-latency 2-player gameplayDesigned & implemented core chess engine logic with move validation, turn enforcement & illegal-move preventionImplemented secure authentication using JWT and bcrypt, managing session state via HTTP cookiesDeveloped REST APIs using Express.js, persisting game state and user data in MongoDB schemas	
Notes Managing Application <i>Django, REST APIs, MySQL</i>	Feb. 2021 
<ul style="list-style-type: none">Built REST APIs using Django, enabling secure and scalable note creation, retrieval, updates, and deletionModeled relational data in MySQL with optimized queries and schema design to ensure data consistency and persistence	

TECHNICAL SKILLS

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

Backend, Data & AI Systems: REST, gRPC, Microservices, Authentication & Authorization, Async Processing, PostgreSQL, MongoDB, Redis, Kafka, LLM Integration, RAG, Embeddings, Vector Stores, Prompt Engineering

Platform & Infrastructure: Docker, Kubernetes, Linux, Logging, Monitoring, Observability, Debugging, Git, Cursor

ACHIEVEMENTS

- ICPC:** Secured top **9.4%** (Rank 471 out of 4990+ participating teams) in ICPC Preliminary Round 2021
- MCM Scholarship:** Consistently recognized among the **top 10%** students each semester, receiving MCM Scholarship
- CP/DSA:** Solved **1K+** problems on LeetCode(**rahul-rj**), Expert on Codeforces(**rahul_rj**) & 4* on CodeChef(**rahul_rj**)
- Gold Medal in Intra-IIT Sports Meet:** Awarded **Gold** Medal on achieving **1st rank** in chess competition

RESEARCH PUBLICATION

A. Iqbal, **Rahul Kumar**, U. Soni and T. Jain, “LSTM Based Real-Time Transient Stability Assessment Using Synchrophasors,” *2024 6th Global Power, Energy and Communication Conference (GPECOM)*, Budapest, Hungary, 2024, pp. 339–344, doi: 10.1109/GPECOM61896.2024.10582708.