

# Roshan Kumar Sahu

imroshansahu31@gmail.com | +91 8102051183 | LinkedIn | GitHub | LeetCode

## SUMMARY

---

Backend Software Engineer experienced in designing and operating production cloud services. Strong foundation in RESTful APIs, concurrency, distributed systems, and service reliability. Skilled in building scalable backend architectures, implementing CI/CD pipelines, and monitoring live systems to ensure stability and performance.

## EXPERIENCE

---

### SGF-Tech

Dec 2025 – Present

#### Backend Developer

- Designed and implemented versioned RESTful APIs using Express.js with asynchronous request handling.
- Built automated billing and product workflows ensuring transactional consistency and validation logic.
- Implemented authentication and RBAC authorization using JWT-based access control.
- Optimized PostgreSQL queries and indexing strategies, improving API latency under load.
- Configured GitHub Actions CI pipelines with automated testing and deployment workflows.

### Vanivert AI

Jul 2025 – Dec 2025

#### Full Stack Developer

- Migrated backend services to FastAPI and redesigned scalable REST APIs.
- Implemented structured logging, metrics collection, and health checks to improve observability.
- Built CI/CD pipelines and automated testing to ensure stable and repeatable deployments.
- Participated in code reviews and architectural discussions focused on scalability and fault tolerance.

## SKILLS

---

**Programming:** C++, Java, Python, JavaScript, TypeScript

**Backend Development:** RESTful APIs, Express.js, FastAPI, API Versioning, Async Programming

**Authentication & Security:** JWT, Role-Based Access Control (RBAC)

**Distributed Systems:** Concurrency Control, Stateless Services, Caching (Redis), Microservices

**Databases:** PostgreSQL, MongoDB, Query Optimization, Indexing

**DevOps:** Docker, GitHub Actions, CI/CD, Git

**Engineering Practices:** Unit Testing, Code Reviews, Observability, Logging, Metrics

## PROJECTS

---

### CollabTask - Real-time collaborative task management platform

[Code](#) | [Live](#)

- Designed RESTful backend supporting concurrent multi-user edits using optimistic concurrency control.
- Implemented audit logging and traceability for debugging and data integrity.
- Containerized services and implemented structured monitoring workflows.

### Slimnastics - Scalable microservices-based gym management system

[Code](#) | [Live](#)

- Architected stateless microservices with JWT authentication and RBAC authorization.
- Optimized database indexes and aggregation pipelines to reduce query latency.
- Built payment processing workflow ensuring transactional integrity.

### Translingo - Real-time messaging and communication system

[Code](#) | [Live](#)

- Built a real-time chat application using Socket.io for instant bidirectional communication.
- Integrated file sharing using Multer and Cloudinary for media uploads.
- Designed responsive frontend with message persistence using MongoDB.

## EDUCATION

---

### Indian Institute of Information Technology, Una

2022 – 2026

B.Tech · Electronics and Communication Engineering (CGPA: 8.90)

## ACHIEVEMENTS

---

- Knight on LeetCode (600+ problems solved, Top 9% globally).
- Strong foundation in data structures and algorithms with competitive programming experience.
- 3rd place at Electrothon (NIT Hamirpur) for rapid system prototyping.