

RANJANA TIWARI

+919768783953
github.com/ranj1

ranjanatiwari1996@gmail.com
in/ranjana-tiwari/

PROFESSIONAL SUMMARY

A **Full Stack Software Engineer** with 4 years of experience building high-performance backend systems, secure payment workflows, and scalable mobile-first applications. Skilled in **Node.js, MySQL, Flutter** and system optimization, with a proven track record of reducing API response times from **15s to under 2s**, handling **5M+ records**, and delivering reliable payment processing systems managing **₹20 lakh+ per month**. Experienced in designing retry-safe payout flows, optimizing SQL performance, and integrating real-time features such as **GPS tracking, Maps APIs, barcode scanning, and automated notifications**. Strong in end-to-end system ownership, performance tuning, and delivering production-grade solutions used by thousands of daily users.

TECHNICAL SKILLS

Languages:	JavaScript, TypeScript, Dart
Frameworks:	Node.js, Express.js, Flutter
Databases:	MySQL, MongoDB, Redis
Cloud:	AWS (EC2, Lambda, API Gateway, RDS, S3), Firebase
DevOps & Infrastructure:	Docker, Nginx, PM2, CI/CD Pipelines
Miscellaneous:	RESTful API Architecture, JWT Authentication, Redis Caching, WebSockets, Payment Gateway Integration, Database Optimization, Scalable Backend Design

PROFESSIONAL EXPERIENCE

Software Engineer - Full Stack, *Zeki Software Pvt. Ltd, Mumbai, India*

July 2021 – Present

- Optimized **MySQL query performance**, reducing API response time from **15s to under 2s** on queries running across **5M+ transaction records** by adding indexing, restructuring joins, and using summary tables.
- Developed a secure **payment processing system** using **Node.js, Express, MySQL, and JWT**, handling **₹20+ lakhs per month** with penny-drop verification, idempotency, retry logic, and trigger-based audit logs.
- Implemented a robust **payout retry mechanism** where each attempt generates a new **request_id** while keeping the same **transaction_id** and **idempotency_key**, ensuring **zero duplicate payments** and maintaining complete attempt history.
- Built an automated **Visitor Management System** for Mahindra, handling **300+ daily visitors** and reducing check-in time from **10 minutes to 1 minute** with barcode-based Entry/Exit APIs and automated SMS/Email notifications.
- Designed and optimized **REST APIs** for field operations such as attendance, dealer visits, orders, and dispatch logs — processing **10,000+ daily operational records** — and improved performance by **40–60%** using indexing, pagination, and efficient SQL queries.
- Implemented a secure **RBAC (Role-Based Access Control)** system with **JWT authentication**, permissions tables, and middleware-level authorization, enabling controlled access across Salesperson, Manager, Dealer, Distributor, and Admin roles.
- Developed cross-platform **Flutter mobile features** with optimized UI, state management, and integrations like **Google Maps, GPS tracking, FCM notifications**, and real-time syncing for **100+ field agents**.
- Took end-to-end ownership of **backend architecture** using **Node.js**, including **modular API design**, cron jobs, database design, **performance tuning**, **CI/CD pipelines**, and full **audit logging** for production systems.

Backend Developer, *FreshVnF Pvt. Ltd, Mumbai, India*

January 2020 – April 2021

- Developing and maintaining the back-end & front-end functionality of websites using **React.js and Node.js**.
- Employed **AJAX and JSON technologies** to create a seamless data exchange between the front-end and back-end.
- Wrote the **Cross-browser compliant HTML, CSS & JavaScript code**.

PROJECTS

- Built **Online Interviewer** with **ChatGPT & Gemini APIs** for real-time AI assessments and seamless backend integration. [Code](#)
- Developed **Flutter & Node.js video calling app** using **VoIP** for high-quality audio/video communication. [Code](#)

EDUCATION

Bachelor of Engineering, Computer Engineering

PVPP College of Engineering, Mumbai University (2014-2019)