RAVI KUMAR NERSU

SOFTWARE ENGINEERING SPECIALIST

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SUMMARY

- Specialist Software Engineer with 8.5+ years of experience designing and scaling performance-critical, frontend-heavy enterprise platforms. Focused on frontend architecture, rendering strategy, and system performance for large-scale web applications.
- Currently serving as a frontend architecture owner for global, multi-market platforms (Avis Budget Group), driving microservices adoption, BFF architecture, and caching strategies using React, Next.js, and Node.js that resulted in ~50% real-world load time improvements.
- Experienced in building maintainable systems at scale, making explicit architectural trade-offs, and improving developer velocity across distributed teams.

TECHNICAL SKILLS

- **Frontend Architecture & UI**
  React.js, Next.js (App Router), TypeScript, JavaScript (ES6+), Redux, Zustand, Frontend Performance Optimization
- **Backend & APIs**
  Node.js, NestJS, Express.js, REST APIs, Microservices (BFF pattern)
- **Databases & Caching**
  PostgreSQL, MySQL, Redis
- **Testing & Quality**
  Jest, React Testing Library, Playwright, Vitest
- **Cloud & DevOps**
  Docker, CI/CD, Kubernetes (working knowledge), AWS (EC2, S3)

PROFESSIONAL EXPERIENCE

LTIMindtree — Specialist Software Engineer

Jan 2025 – Present │ Hyderabad, India

Client: Avis Budget Group

- Frontend architecture owner for global, multi-market digital platforms serving millions of users
- Led the design of a microservices-based frontend architecture, defining rendering strategies, API boundaries, and caching layers
- Drove adoption of Next.js App Router with BFF-style NestJS services to enable independent deployments and scalability
- Led migration from tightly coupled monoliths to modular, independently deployable microservices
- Achieved ~50% reduction in real-world page load times and improved release safety across regions

React • Next.js (App Router) • NestJS • TypeScript • Redis • Docker • Kubernetes • AWS

LTIMindtree — Specialist Software Engineer
Jan 2024 – Jan 2025 | Hyderabad, India
Client: Ingram Micro

- Contributed to the development and maintenance of enterprise-scale web portals supporting vendor and channel partner operations
- Worked on modular React-based frontend architecture to improve maintainability and consistency across applications
- Integrated RESTful APIs for onboarding, campaign management, and operational workflows

MSR COSMOS IT LLP — Senior Software Engineer
Aug 2020 – Jan 2024 | Hyderabad, India
Client: TMILL (Tata Martrade International Logistics Limited)

- Built and owned end-to-end web modules for logistics automation across Railways, SCM, and MLS domains
- Designed backend services and data models to support high-volume operational workflows
- Developed data-intensive dashboards with live tracking and visualization using Google Maps
- Improved performance and reliability of mission-critical systems used by operations teams

Allmvr Projects Pvt. Ltd — Front-End Developer
Jun 2019 – Aug 2020 | Vijayawada, India

- Built customer-facing and admin web applications for a multi-vendor retail delivery platform
- Implemented core user flows including onboarding, ordering, payments, and real-time location tracking
- Delivered end-to-end features from initial design through production deployment

Xelpro software solutions &Whatsscore Pvt. Ltd — Software Developer
Jun 2017 – Jun 2019 | Hyderabad, India

- Developed web and mobile applications for sports tournament and event management
- Built authentication flows, dashboards, and participant registration systems

EDUCATION

Bachelor of Technology (B.Tech) — Computer Science & Engineering
KL University, Guntur
June 2013 - May 2017