Rupak Nalla

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SUMMARY

Software Engineer with hands-on experience building user-friendly, responsive web applications using React and modern frontend technologies. Proficient in JavaScript (ES6+), HTML5, CSS3, and integrating with backend services via RESTful APIs. Demonstrated ability to collaborate with cross-functional teams including designers, product managers, and backend engineers to deliver high-quality solutions. Eager to contribute to innovative healthcare technology solutions that make life better for people.

EDUCATION

Indian Institute of Technology, Madras   *2022 – Present*
B.Sc in Data Science and Applications   Chennai, TN, India

JNTUH College of Engineering, Manthani   *2021 – 2025*
B.Tech in Computer Science and Engineering   Manthani, TS, India

CORE COMPETENCIES

- **Frontend Development**: React, Vue.js, JavaScript (ES6+), HTML5, CSS3, Responsive Design
- **Backend & APIs**: Node.js, Express.js, Python, Flask, FastAPI, RESTful API Integration
- **State Management & Tools**: Redux, Context API, Webpack, Git, VS Code
- **Additional Skills**: Agile/SDLC, Performance Optimization, Accessibility, Code Reviews, CI/CD

TECHNICAL PROJECTS

Supply Chain Management System *React.js, Python, Flask, SQLite*

- Developed a full-stack web application for managing supply chain operations including inventory tracking, order management, and vendor coordination
- Designed and built **user-friendly, responsive web interfaces** using React.js and React Hooks following modern frontend best practices and accessibility standards
- Architected and **integrated RESTful APIs** between frontend and backend services, delivering seamless features and enhanced user experience
- Built reusable frontend components with focus on maintainability, reducing development time by 25%

Library Management System *Vue.js, Node.js, Flask, Redis, SQLite*

- Created a comprehensive library management platform enabling book cataloging, user registration, borrowing/returning workflows, and automated late fee calculations
- Engineered responsive and accessible user interfaces capable of serving 100+ concurrent users with smooth performance
- Designed and integrated backend services via RESTful APIs to deliver high-quality, seamless user experiences
- Optimized frontend performance by 35% through efficient state management and Redis caching strategies

Candidate Filtering System *Python, FastAPI, MongoDB, VoyageAI*

- Built an AI-powered resume screening system that uses semantic search to match candidate profiles with job requirements, streamlining recruitment workflows
- Architected and developed scalable backend services and APIs, demonstrating understanding of full software development lifecycle
- Enhanced system performance and maintainability through asynchronous programming, reducing latency by 40%

ACHIEVEMENTS

- Secured 987th rank in TCS CodeVita Round 2; solved 200+ LeetCode problems with 50-Day Badge (2024, 2025)

- Technical Coordinator for AVINYA 2024 college fest, leading event organization and cross-functional teams

CERTIFICATIONS

Web Development (HTML & CSS), Software Engineering and Agile Development