

# 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

B.Sc in Data Science and Applications

2022 – Present

Chennai, TN, India

### JNTUH College of Engineering, Manthani

B.Tech in Computer Science and Engineering

2021 – 2025

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
- Created **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
- Planned 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**

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- 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**

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