

RUPAK NALLA

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SUMMARY

Software Engineer with experience building scalable web applications across frontend, backend, and full-stack environments. Proficient in React, Vue.js, Node.js, and Python with knowledge of Agile methodologies, RESTful API design, and cloud technologies. Eager to contribute to innovative financial technology solutions.

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

- **Languages:** Python, JavaScript (ES6+), C++, SQL, HTML5, CSS3
- **Frameworks & Tools:** React, Vue.js, Node.js, Express.js, Flask, FastAPI
- **Databases & Cloud:** MongoDB, MySQL, Redis, SQLite, Google Cloud Platform
- **Skills:** RESTful API Design, Agile/Scrum, OOP, Git, Generative AI, Performance Optimization

TECHNICAL PROJECTS

Candidate Filtering System

- Python, FastAPI, VoyageAI, MongoDB*
- Developed scalable AI-powered filtering engine with asynchronous programming, reducing search latency by 40%
 - Leveraged **Generative AI** embeddings (VoyageAI) for semantic search, improving retrieval accuracy by 30%
 - Applied **Agile principles** during rapid prototyping and collaborated with cross-functional teams

Supply Chain Management System

- Python, JavaScript, React.js, Flask, SQLite*
- Built **scalable, responsive web applications** using React.js and modern React Hooks following best practices
 - Designed and implemented **RESTful API** architecture with Flask, managing full development lifecycle
 - Improved operational efficiency by 25% through centralized platform and streamlined collaboration

Library Management System

- Vue.js, Node.js, Flask, Redis, SQLite*
- Developed **full-stack application** with Vue.js frontend and Flask backend for 100+ concurrent users
 - Optimized performance by 35% using Redis caching and implemented secure JWT authentication
 - Applied **OOP principles** and collaborated in Agile/Scrum environment with code reviews

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 |