

SAI PUJITHA VANKADARI

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Professional Summary

Full Stack Developer with 4+ years of experience building and optimizing large-scale web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js) and Python (FastAPI). Proven track record of improving application performance, reducing load times, and delivering data-intensive systems handling 50K+ records. Experienced in end-to-end feature ownership, API development, and frontend performance optimization. Leveraged AI-powered developer tools to accelerate development, improve code quality, and reduce delivery timelines.

Technical Skills

Frontend: React.js, Redux, JavaScript (ES6+), TypeScript, HTML5, CSS3, Tailwind CSS, Kendo UI, AG Grid, React Recharts

Backend: Node.js, Express.js, Python (FastAPI)

Version Control & Tools: Git, GitHub

Database: MongoDB, MySQL

Others: REST APIs, Agile Development, Responsive Design

AI Productivity & Development Tools

- Used GitHub Copilot to accelerate feature development, refactor legacy code, optimize Redux logic, and improve debugging efficiency.
- Reduced development turnaround time by generating boilerplate code, reusable hooks, API contracts, and unit test scenarios with AI assistance.
- Applied AI-driven insights to analyze runtime issues and performance bottlenecks in large React applications.

Professional Experience

Tech Mahindra | Software Developer (Nov 2023 – Present)

Projects: 6K Qual, OWA, Periscope, JITV

- Developed and maintained high traffic React applications used by internal enterprise teams.
- Built and optimized data-intensive UI modules using AG Grid, handling 50K+ records per view with infinite scrolling, server-side pagination, and advanced sorting.
- Improved critical screen load and render times by ~25% (from ~6s to ~4.5s) by implementing lazy loading.
- Refactored Redux state architecture to minimize unnecessary re-renders, reducing component update cycles and improving overall UI responsiveness.

- Designed and integrated REST APIs using Node.js and Express, supporting frontend workflows and secure data exchange with MongoDB.
- Implemented robust form validation, error boundaries, and centralized toast notifications, significantly improving user experience and error handling consistency.
- Applied debounce and caching strategies to reduce redundant API calls.
- Created reusable custom hooks, shared utilities, and component libraries, reducing duplicate code and improving long-term maintainability.
- Actively participated in code reviews, technical discussions, and design decisions, ensuring adherence to best practices and clean architecture standards.

Kagami | Software Developer (Sep 2021 – Oct 2023)

Project: OzoneTel

- Contributed to the development of data-driven internal dashboards using React.js and Recharts, enabling business teams to visualize and track operational metrics efficiently.
- Built modular, reusable React components following best practices, improving code maintainability and enabling faster feature enhancements. Implemented dynamic UI behavior and conditional rendering based on backend API responses to support flexible and configurable workflows.
- Collaborated closely with backend teams to integrate RESTful APIs, ensuring reliable data flow and consistent frontend–backend communication.

Cuddin Tech | Internship (Jan 2021 – Aug 2021)

- Developed a React.js-based web application for an education consultancy platform, guiding users through course and visa selection workflows.
- Gained practical experience in frontend development fundamentals, API integration, and collaborative development workflows.

Personal Projects

Dev Tinder Application | React.js, Node.js, Express, MongoDB, AWS:

Live Application URL: <https://www.devtinderlab.info/>

- Built a developer-focused Tinder-style matching application where users can create profiles, swipe, and match based on tech skills.
- Developed complete backend using Node.js and Express with secure authentication, match algorithms, and profile APIs.
- Used MongoDB for storing user details, preferences, and match history with optimized schemas.
- Deployed the backend on AWS with proper environment configuration, scalability, monitoring, and API security.

Education

Bachelor of Technology (Information Technology)

Teegala Krishna Reddy Engineering College, Hyderabad — 2020