

PASAM VENKAT REDDY

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Education

Vellore Institute of Technology

B. Tech in Computer Science and Engineering — CGPA: 8.25

Bhopal, MP

Oct 2022 - May 2026

Narayana English Medium High School

Higher Secondary School (Class 12) — Percentage: 75%

Vizag, AP

Jun 2020 – Mar 2022

Kennedy High School

High School (Class 10) — Percentage: 78%

Vijayawada, AP

Jun 2019 – Mar 2020

Technical Skills

Languages: Java, JavaScript, SQL, Python.

Developer Tools: VS Code, Android Studio, Postman, Github.

Technologies/Frameworks: HTML, CSS, React, Next.js.

Backend Technologies: Node.js, Express.js, MongoDB

Projects

Electron Web Browser | *Electron.js, React.js, Express.js, TailwindCSS*

Jul 2025

- Designed and developed a **cross-platform custom web browser** using Electron.js and React.js with a modern, responsive UI.
- Implemented **multi-tab browsing, search suggestions, bookmarks, history, and user profiles** with secure session management.
- Integrated **SQLite database** for persistent storage of history, bookmarks, and sessions.
- Added **custom widgets** (weather, news) via API integration and enabled **real-time profile switching** with isolated cookies.
- Optimized performance by **lazy-loading heavy components** to improve startup speed and navigation.

Taskflow app | *React 19, JavaScript, Vite, Material UI, IndexedDB*

Oct 2025

- Built a **full-featured offline-first task management PWA** using React and Vite with a clean, scalable architecture.
- Implemented **advanced task features** including pinning, deadlines, categories, emojis, color tagging, and quick-save interactions.
- Developed **cross-device data sync and sharing** using compressed payloads, conflict resolution, and merge strategies for tasks and categories.
- Designed a **responsive, accessibility-focused UI** with Material UI and Emotion, supporting dark/light/system themes and reduced-motion preferences.
- Integrated **Service Workers and offline caching** to enable seamless usage without internet and safe background updates with user prompts.

Koro: AI Tutoring Chrome Extension | *ReactJS, CRACO, Node.js, Express, Google Gemini API*

Sep 2025

- Developed **Koro**, an AI-powered Chrome extension using **ReactJS** with **CRACO** and **Node.js + Express** for backend APIs.
- Integrated **Google Gemini API** to deliver interactive **Socratic-style tutoring** with context-aware guiding questions.
- Engineered a **dynamic learning workflow** where Koro adapts questions based on user input, promoting critical thinking.
- Implemented **personalized AI-driven responses**, ensuring an engaging and interactive user experience.

Achievements/ Certificate

- SmartBridge MERN stack
- IBM Gen AI.
- Oracle AI Cloud Database Services
- 75.5 in NPTEL Cloud Computing.

Hobbies

- Reading comics, Cricket, Watching TV