

MANIKANTA KETHA

Full Stack Developer | AI Coding Assistant Engineer

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SUMMARY

Full stack developer with hands-on experience building AI powered developer tools using React, Next.js, Node.js, and TypeScript. Currently working on an AI coding assistant that turns natural language prompts into production ready UI code, with direct experience in prompt engineering, system instruction design, and improving the accuracy of AI generated components. Comfortable owning a feature end to end, from backend architecture and real time analytics to frontend implementation and AI integration.

SKILLS

Languages: JavaScript, TypeScript, Python, HTML5, CSS3

Frontend: React.js, Next.js, Redux, Tailwind CSS, multiple component libraries

Backend: Node.js, Express.js, REST APIs, WebSockets

Databases: MongoDB, MySQL

AI & LLM Tooling: Prompt Engineering, System Prompt & Instruction Design, AI Coding Agents, Generative UI, LLM API Integration (OpenAI, Claude, Gemini, and other providers)

Tools & Platforms: Git, GitHub, VS Code Extension Development, Postman, Vercel, CI/CD basics

EXPERIENCE

Software Engineer

Jan 2025 - Present

PureCode Software

- Work on PureCode AI, an AI coding agent shipped as a VS Code extension that turns natural language prompts into production ready UI components and applies edits across multiple files using existing codebase context.
- Design and refine prompt structures and system instructions for the underlying AI models, improving the accuracy and consistency of generated code.
- Build real time backend services and full stack analytics dashboards using React, Node.js, and MongoDB to track usage, generation quality, and performance of the AI assistant.

Frontend Developer

Oct 2024 - Dec 2024

PureCode Software

- Built a text to UI transformation engine that converts natural language descriptions into responsive React components styled with Tailwind CSS and other component libraries.
- Developed a custom theme engine that lets users upload their own configuration and apply design tokens instantly across all generated components.
- Created reusable Next.js and TypeScript modules so the extension could support multiple frontend frameworks from a single codebase.

QA Engineer

Jan 2024 - Sep 2024

PureCode Software

- Built automated test suites to check the accuracy and consistency of AI generated React components against expected design specifications.
- Ran regression testing across releases of the VS Code extension to maintain stability and performance standards.
- Logged edge cases and failure patterns that fed back into prompt and model improvements, raising the reliability of generated output.

PROJECTS

PureCode AI - VS Code Extension

- AI coding assistant that generates and edits React, Next.js, and HTML components from plain English prompts, using the project's own codebase as context.
- Contributed to prompt design, the theme engine, and backend analytics that support the extension's code generation and multi file editing features.

PureCode AI - Web Platform

- Web based platform where users describe what they need in plain English and instantly generate ready to use UI components with custom themes and layouts, built on the same prompt to component pipeline and full stack services.

EDUCATION

Bachelor of Technology (B.Tech) in Mechanical Engineering