Madhesh K

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SUMMARY

I like building full-stack AI products. I've worked with React, Python, and FastAPI to build AI chatbots and real-world web apps at scale. Right now, I'm working on Userorbit, focused on building clean, usable interfaces and smart backends. I'm drawn to problems where AI meets product and I learn fastest by shipping.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, TypeScript and SQL.

Frameworks and Tools: React.js, Next.js, FastAPI, Flask, Node.js, PostgreSQL, Tailwind CSS.

Concepts: Microservices, REST API, CI/CD, AI, n8n Workflows, Vector Databases, Agile, Async Programming.

EXPERIENCE

Userorbit Technologies **Jan 2025 – Present**

Software Engineer

Chennai, IN

- Built an AI chatbot using Python and FastAPI, automating 60% of customer support queries.
- Integrated OpenAI APIs into a full-stack app, enabling dynamic content generation with real-time user input.
- Refactored frontend components with Tiptap and Tailwind CSS, improving UI consistency and load times by 30%.
- Deployed containerized services with Docker and AWS ECS, streamlining scalability and resource allocation.
- Set up Redis caching and background task queues, reducing API latency during high-traffic periods by 40%.

Veltech HighTech Engineering College **Nov 2022 - Present**

BE - Computer Science and Engineering

Chennai, IN

- Built strong foundations in Computer Science with focus on DBMS, Algorithms, and Web Development.
- Hands-on experience in Full-Stack Development (React, Node.js, APIs) and DevOps (Git, Docker, CI/CD).
- Applied AI integration with Python & OpenAI in projects and bootcamp training.

PROJECTS

Userorbit Application

Technologies: Next.js, Node, Kafka, ClickhouseDB, PostgreSQL

- Developed core product modules using React, Node Koa, PostgreSQL and Clickhouse, focus on scalability & maintainability.
- Implemented dynamic content generation with OpenAI APIs, enabling personalized user experiences across the platform.
- Optimized API performance and reduced load times by 35% through async processing and database query tuning.

VORA - Voice Oriented Response Assistant.

Technologies: Python, Natural Language Processing, Speech Recognition, API, pyttsx3

- Designed and developed VORA, a Python-based voice assistant that processes voice commands using various technologies
- Integrated speech recognition and text-to-speech libraries to enable natural interaction and automated task execution.

Design System - UI Component Library

Technologies: React, Tailwind CSS, TypeScript

- Developed a reusable UI component library with an integrated design system to ensure visual consistency across projects.
- Integrated Storybook for live documentation and testing, accelerating frontend development by 40%.

EDUCATION

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