

Gokul Kiran

Full Stack Developer

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#)

SUMMARY

Self-taught Full Stack Developer with hands-on experience in building scalable React.js, Node.js, Python and AWS, integrating LLM-based AI features like GPT-4o, AI agents, RAG. Focused on delivering responsive, user-friendly web applications with clean UX, performance-optimized frontends and SEO best practices.

TECHNICAL SKILLS

- **Front-end:** HTML, CSS, JavaScript, TypeScript, React.js, Next.js, Tailwind CSS, Redux
- **Back-end:** Node.js, Express.js, Python, Django, Flask, FastAPI, GraphQL
- **Databases & APIs:** PostgreSQL, MySQL, MongoDB, Pinecone (Vector DB), OpenAI API, RESTful API
- **Cloud & DevOps:** AWS (Lambda, S3, IAM, CloudWatch), Serverless Architecture, Vercel, CI/CD, Docker
- **AI & Machine Learning:** OpenAI Models, NLP, LangChain, LLM, CrewAI, RAG Pipelines
- **Developer Tools:** Git, GitHub, VS Code, Cursor, Postman, Figma

PROJECTS

AI Knowledge Base with RAG Architecture (Next.js, GPT 4o, Pinecone) [Live Demo Website Link](#)

- Launched a full stack RAG AI knowledge base app allowing users to query uploaded PDFs/text files using **Next.js**, **GPT 4o** and **Pinecone**.
- Enhanced embedding accuracy and **retrieval relevance by 35%** through an optimized chunking strategy and OpenAI embedding models in Pinecone.
- Developed a responsive, mobile-first UI using **Tailwind CSS** and **GSAP**, and deployed on **Vercel**.

Multi-Agent Disaster Response Simulator (FastAPI, CrewAI, GPT-4o-mini) [Github Repository Link](#)

- Built an **AI-Agents powered** web application that simulates structured disaster response planning using a **multi-agent architecture**. Integrated **OpenAI GPT-4o-mini** for reasoning.
- Developed a **FastAPI backend** orchestrated with **CrewAI**, enabling specialized agents (**Planner, Researcher, Logistics, Communicator**) to collaborate on user-submitted crisis scenarios.

AI News Aggregator with Summarization (Next.js, GPT-4o) [Live Demo Website Link](#)

- Deployed a dynamic news platform using **Next.js** and **GPT-4o** to display real-time news with **AI-generated summaries**, keyword extraction. Integrated **OpenAI** and **Newsdata.io** APIs.
- Optimized rendering efficiency and SEO by utilizing **getServerSideProps**, **React.memo**. Implemented **Jaccard similarity filter** to guarantee best search results and eliminate duplicates.

Serverless Video Captioning App (OpenAI Whisper, AWS Lambda) [Github Repository Link](#)

- Built a serverless video captioning app using **OpenAI Whisper API** with **AWS Lambda** and **S3 event driven architecture** for scalable processing. Designed a responsive UI with **Next.js**
- Improved transcription **speed by 40%** through optimized, S3 triggered Lambda functions.

CERTIFICATIONS

- Full Stack Web Development Bootcamp
- Vibe Coding: AI Driven Software Development and Testing (Cursor, Lovable, Windsurf)
- AWS: Deploy Web Apps on the Cloud

EDUCATION

Bachelor of Engineering in Computer Science: CGPA 8.3

Anna University: Misrimal Navajee Munoth Engineering College