Immanni Venkata Narayana Chowdary

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AI Engineer & Full-Stack Developer specializing in LLM-powered applications, agentic workflows, and AI-first product development. Experienced in integrating modern AI frameworks like LangChain, LangGraph, and MCP servers into production-ready SaaS platforms. Strong foundation in Python, Next.js, Node.js, and building end-to-end systems with AI automation, RAG pipelines, and vector search. Passionate about building scalable GenAI tools, automating real-world workflows, and delivering clean, user-centric interfaces.

Education

G M R Institute Of Technology   **Rajam, India**

Bachelor Of Technology, Information Technology.   *Dec 2021 - April 2025*

Skills & Interests

- **Languages:** C, Python, JavaScript, Typescript
- **Frameworks:** React.js, Node.js, Express.js, Flask, Next.js, FastAPI, Zustand, Redux, Redis, FastAPI
- **Databases:** MongoDB, Firebase, SQL, Appwrite
- **Generative AI :** LLM integration (OpenAI, Gemini), RAG pipelines, vector embeddings
- **Vector Databases:** ChromaDB
- Agentic AI workflows (LangChain Agents, LangGraph Flows, MCP Server)
- Prompt engineering and function-calling
- **Tools:** Git, GitHub, Postman, VS Code, Google Colab, n8n

Experience

Inagent   **Bengaluru, India**

Software Engineer   *April 2025 – Dec 2025*

- Built and integrated agentic AI and GenAI tools using LangChain, LangGraph, and MCP servers as part of the full-stack AI platform.
- Helped take the product from inception to its first 5 sales, shaping early adoption and product strategy.
- Developed end-to-end full-stack SaaS features using React.js, Next.js, Node.js, Express.js, and Python for scalable, reliable solutions.
- Managed CI/CD using GitLab pipelines, Docker, and Rancher for scalable deployments.
- Contributed as a core development team member, influencing technical decisions with the CTO and delivering full-stack features. Drove product decisions, engineering architecture, and rapid iterations in a fast-paced startup.

Inagent   **Visakhapatnam, India**

Software Developer Intern   *Nov 2024 – April 2025*

- Worked closely with the CTO to build the foundational architecture of a modern SaaS platform from scratch.
- Developed full-stack features using React.js, Node.js, and MongoDB, ensuring seamless integration and robust performance.
- Integrated and consumed RESTful APIs to enable smooth data flow across frontend and backend services.
- Collaborated with the UI/UX team to build intuitive, user-friendly interfaces.

Projects

Trackly - Job Application tracker

- Built a job application management platform using Next.js, Prisma ORM, Clerk, and Gmail API
- Automated email fetching, parsing, and AI-powered job classification and tracking statuses, job details, and deadlines.
- Developed an intuitive dashboard with server-side rendering, enabling seamless monitoring, filtering, and management of applications.
- Implemented secure authentication and user management with Clerk and JWT, supporting 20+ active users.
- Used Prisma ORM and PostgreSQL for database modeling and persistent storage.

Technologies: Next.js, Prisma ORM, PostgreSQL, Clerk, Gmail API, Gemini API, JWT, Payment System

ConnectNow: A Chat App

- Built a real-time messaging app using Socket.io for instant messaging and updates, ensuring a fast user experience.
- Developed group chat with role-based admin controls using Express.js and MongoDB for efficient user management.
- Integrated PeerJS for peer-to-peer video calling, enhancing user experience with high-quality calls.
- Implemented OTP verification and JWT authentication for secure password changes and account verification via Nodemailer.

Technologies Used: React.js, Node.js, MongoDB, Express.js, Socket.io, PeerJS, Nodemailer, JWT

RAG based Document Question Answering System

- Built an AI-powered document intelligence system that allows users to upload PDFs and query them with natural language.
- Implemented advanced text chunking, semantic embeddings, hybrid retrieval, and reranking to deliver accurate answers.
- Designed a multi-step reasoning pipeline using LangChain/LangGraph, combining retrieval agents and answer synthesis agents.
- Integrated vector search using ChromaDB for fast and scalable document retrieval, ensuring low-latency performance for large PDFs.

Technologies Used: Python, LangChain, LangGraph, ChromaDB, HuggingFace Embeddings, Rerankers, FastAPI.

Certifications

- **Web Development Bootcamp** by **Angela Yu** *(Udemy, 2022)*
- **Programming in Python** *(Meta, 2023)*

Achievements

- Secured 1st place out of 150+ participants in a competitive Frontend Challenge.
- Awarded Merit Scholarship for academic performance, ranking in the top 5% with a CGPA of 9.2.
- Won Poster Design Competition among 300+ participants, with design selected as the official fest poster.

Leadership & Activities

Computer Society of India (CSI) Student Chapter

Vice Chairperson   *Oct 2022 – Mar 2025*

- Promoted to Vice Chairperson after 1 year as Coordinator, currently overseeing the operations and strategy of the student chapter.
- Organized 10+ competitions and workshops with varying organizing teams, focused on skill enhancement, student engagement, and fostering growth.