Nithish A

nithishadhi3124@gmail.com | +91 9176594140 | [LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [Figma](#)

Education

B.E Computer Science and Engineering   *Nov 2022 - May 2026*
St Joseph's Institute of Technology, Chennai

Experience

Trios Technologies Pvt. Ltd   *June 2024 – July 2024*
Chennai, Tamil Nadu
- Gaied experience in **SQL database management**, designing table structures and learning data types

Indesfarm Technology LLP   *May 2025 – June 2025*
Chennai, Tamil Nadu
- Designed and developed a responsive company website, delivering a live, production-ready web presence tailored to business requirements.

Projects

Mini RAG System – Retrieval Augmented Generation Application
Python, FastAPI, LangChain, FAISS, OpenAI API, HTML, CSS, JavaScript

- **Built a Retrieval-Augmented Generation (RAG) system** that answers user queries using contextual document retrieval instead of plain LLM responses.
- **Document Processing Pipeline:** Implemented text loading, chunking, and embedding generation to prepare data for semantic search.
- **Vector Database (FAISS):** Stored embeddings and performed similarity-based retrieval for accurate context selection.
- **LLM Integration:** Combined retrieved context with user queries to generate grounded, relevant answers using an LLM.
- **Backend API:** Developed RESTful endpoints using **FastAPI** for query handling and response generation.
- **Frontend Interface:** Created a lightweight HTML/CSS UI to interact with the RAG system, demonstrating end-to-end LLM-driven architecture.

Agentic AI System – React + FastAPI Application
Python, FastAPI, React, Vite, LangChain, Google Gemini API, HTML, CSS, JavaScript

- Built a full-stack query handling system where user input is analyzed and routed to the appropriate backend tool.
- Learned how to use **LangChain** with **Google Gemini** to interpret natural language and control application flow.
- Designed clean and modular **FastAPI** endpoints with **Pydantic** models for structured request and response handling.
- Implemented separate backend utilities for time lookup, weather retrieval using external APIs, and mathematical calculations.
- Developed a responsive frontend using **React + Vite** and connected it to backend services using asynchronous requests.
- Gained hands-on experience with environment variables, CORS configuration, and deployment-ready project structure.

Personal Portfolio Website – Showcasing Projects & Skills
React, Vite, JavaScript, ESLint, HTML, CSS, Figma

- **Made a portfolio** using **React + Vite** with clean, modular components, without any CSS libraries.
- **Learnt custom ESLint and Prettier rules** to maintain code consistency and reduce bugs.
- **Designed engaging UI/UX** using semantic HTML and CSS; also learnt sectioning and routing.
- **Deployed portfolio site** on **Vercel** to showcase projects, resume, and contact information, highlighting personal branding and initiative.

Technical Skills

- **Programming Languages:** Python ,JavaScript ,Java
- **Web Tools:** LangChain,FASTAPI,Stablediffusion, Blender, React.js, Figma, MongoDB, Gi, HTML5/CSS3
- **Foundation Skills:** Data Structures & Algorithms, OOP, DBMS, Operating Systems
- **Coding Profiles:** LeetCode (300+) 7 badges, SkillRack (160+)

Achievements

Certification: Machine Learning (NPTEL-Elite), Data Structures and Algorithms in Java, Advanced MongoDB, Google UI/UX