Vedant Lahane

vedantanillahane@gmail.com | 7447335096 | github.com/vedantlahane | linkedin.com/in/vedant-lahane
vedantlahane.vercel.app

Projects

QnA (Experimental Multi-Agent Q&A System using LLMs) — July 2025 – Present
- Built an async backend using FastAPI to process natural language queries across SQL, CSV, and document sources using a modular API structure.
- Integrated LangChain and LangGraph to implement multi-agent query routing powered by GPT-4 for structured and unstructured data.
- Designed vector search flow using OpenAI embeddings and ChromaDB with support for similarity search over tabular and document data.

Technologies: FastAPI, Python, SQLAlchemy, SQL, LangChain, LangGraph, OpenAI, ChromaDB

ShoeMarkNet (E-commerce Platform with CI/CD and Containerization) — March 2024
- Engineered modular backend using Node.js and Express with JWT authentication, RBAC, and secure routes for users, products, and orders.
- Automated CI/CD pipeline with Jenkins and Docker Compose, enabling seamless deployment to staging and production environments.
- Integrated Redux Toolkit in the frontend with async thunks and toast-based UX tied to API states for cart, wishlist, and order flows.

Technologies: Node.js, Express.js, MongoDB, JWT, React.js, Redux Toolkit, Jenkins, Docker, Tailwind CSS

MyBlog (Scalable MEAN Stack Blogging Platform) — April 2023
- Developed RESTful APIs using Express.js and TypeScript for user authentication, post CRUD, bookmarking, draft handling, and user profiles with JWT and RBAC.
- Designed MongoDB schemas with Mongoose featuring nested relations across posts, comments, categories, and bookmarks with advanced querying.
- Implemented full-text search, server-side pagination, and error-handling middleware with a modular MVC architecture.

Technologies: Node.js, Express.js, MongoDB, Mongoose, TypeScript, JWT, Angular, Gemini API

Skills

Programming Languages:	Java, JavaScript, TypeScript, Python, PHP, SQL, HTML, CSS
Frameworks & Libraries:	React, Node.js, Express.js, Angular, Redux, Laravel, Shadcn, Tailwind CSS
AI/ML & LLM Technologies:	Prompt Engineering, RAG with FAISS, ChromaDB, LangChain
Cloud & DevOps:	Docker, Docker Compose, Jenkins, CI/CD
Development Tools:	Git, GitHub, Postman, Vite, Vercel, Render, Linux
Databases & Systems:	MongoDB, MySQL
Soft Skills:	Problem-solving, Teamwork, Adaptability, Creativity

Achievements

Solved **300+** Data Structures & Algorithms questions on **LeetCode** and **GeeksForGeeks**

Certifications

Udemy - Deep Learning with TensorFlow 2	July 2025
NPTEL – Cloud Computing	October 2024
Coursera – Generative AI with Large Language Models	April 2024
GeeksForGeeks – Data Structures and Algorithms	August 2023

Education

Lovely Professional University, B.Tech in Computer Science and Engineering	Sept 2022 – July 2026
CGPA: 7.89	Jalandhar, Punjab
Vivekananda Junior College, Class XII	June 2019 – May 2021
Percentage: 92.00%	Nagpur, Maharashtra
Gurukul Public School, Class X	June 2017 – May 2019
Percentage: 84.20%	Paratwada, Maharashtra