

Vikas Gautam

Full-Stack Developer

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GitHub | LinkedIn | Portfolio | Hugging Face

Professional Summary

Full-Stack Developer passionate about building scalable web apps, with strong problem-solving skills and a focus on clean, efficient code.

Technical Skills

- **Frontend:** JavaScript, TypeScript, React, Next.js, Tailwind CSS, WebRTC
- **Backend:** Node.js, Express.js, MongoDB, MySQL, PostgreSQL, Prisma, REST APIs, JWT, FastAPI
- **Programming:** Java, C++, Python, Golang
- **Databases & Tools:** Supabase, Neon, Railway, Vercel, Render, Postman, Git, Docker
- **AI/ML/LLM:** Ollama, LangChain, Streamlit, Prompt Engineering, spaCy, NumPy, Pandas, scikit-learn, Jupyter Notebooks
- **Core Concepts:** Data Structures & Algorithms, OOP, Networking, Cybersecurity Basics
- **Soft Skills:** Excellent communication, strong problem-solving abilities, effective teamwork, leadership (led two teams in integrated projects).

Projects

Sentinel.ai – AI-Powered Proctoring Platform

- Built a full-stack AI proctoring solution to detect cheating in real time.
- Engineered a low-latency video streaming pipeline using **WebRTC** and a **FastAPI** backend.

Technologies: MERN Stack, FastAPI, AI/ML, Python, WebRTC | Live | GitHub

Ollama PDF Q&A – Document Question-Answering App

- Developed a secure, privacy-focused Q&A application that leverages local LLMs via **Ollama** to allow users to query sensitive documents without data leaving their machine.
- Implemented an efficient text-processing pipeline for PDF parsing, chunking, and vector embedding, significantly improving the speed and accuracy of semantic search results.

Technologies: Streamlit, Gemini API, Ollama, LangChain, Python | GitHub

QueryAI – AI-Powered Answer Engine

- Built a conversational AI answer engine that synthesizes information from real-time web searches (**SerpAPI**) to provide users with accurate, sourced answers.
- Engineered a dynamic, streaming UI with **Next.js** to deliver responses token-by-token, creating a highly interactive and engaging user experience.

Technologies: Next.js, TypeScript, SerpAPI, Gemini API | Live | GitHub

Hostel Committee Website

- Built a full-stack community platform to streamline events and share information for hostel residents.
- Implemented secure role-based access with **JWT** and integrated **Cloudinary** for scalable media management.

Technologies: MERN, JWT, Cloudinary | Live | GitHub

Education

Bachelor of Computer Science – Chitkara University | Expected 2027 | CGPA: 9.39

Certifications

- CS50's Introduction to Computer Science – Harvard
- Code in Place – Stanford
- CS50's Introduction to Cybersecurity – Harvard
- Elements of AI – University of Helsinki