

Vaibhav Gupta

+91 7049915514 | guptavaibhav2708@gmail.com | linkedin.com/in/vg2708 | github.com/Gupta2708 | vaibhavgupta.pro

EDUCATION

Thapar Institute of Engineering and Technology

Patiala, India

Bachelor of Engineering in Computer Science Engineering | CGPA: 8.1

2023 – 2027

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, TypeScript, SQL

Core CS: Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks

Frameworks: React.js, Next.js, Node.js, FastAPI, LangChain, LangGraph

Databases & Systems: PostgreSQL, MySQL, MongoDB, Redis, REST APIs, WebSockets

Tools & AI: Git, GitHub, Docker, Postman, n8n, LLMs, RAG, NumPy, Pandas

EXPERIENCE

Oliv AI

Jan 2026 – Present

AI Engineering Intern

Remote

- Built and maintained production API-driven workflows using **n8n**, REST APIs, webhooks, schedulers, retries, validation, and error handling for reliable asynchronous execution.
- Integrated HubSpot, Salesforce, Clay, and external services through API-based automation, implementing data routing, synchronization, and customer-specific business logic.
- Developed internal AI workflow systems with structured prompts, data models, validation logic, and feedback mechanisms to improve reliability and task execution.

Wealthy Nivesh

June 2025 – Aug 2025

Product Analyst Intern

Remote

- Processed and analyzed financial, portfolio, and operational datasets using Python and Pandas to identify inconsistencies and support reporting and decision-making.
- Documented workflows, business rules, and edge cases across product, operations, and compliance processes.

PROJECTS

InferLens – Provider-Agnostic LLM Gateway & Observability Platform | *Next.js, Redis*

[GitHub](#) | [Demo](#)

- Built a **provider-agnostic LLM gateway** with real SSE streaming, request cancellation, normalized errors, bounded retries, provider fallback, and circuit-breaker recovery.
- Engineered an **event-driven observability pipeline** using Redis Streams, background workers, PostgreSQL, W3C Trace Context, PII redaction, Prometheus metrics, and dead-letter recovery.
- Developed an interactive **Next.js observability console** with streaming chat, dashboards, filtered logs and traces, replay, and asynchronous provider comparisons across latency, tokens, cost, status, and output.

LectureWeave – AI Lecture Note Generation System | *React, FastAPI, MongoDB, WebSockets*

[GitHub](#) | [Demo](#)

- Built a **real-time lecture processing platform** using WebSockets and Whisper to stream audio, transcribe sessions, and generate structured, source-grounded notes.
- Engineered a **hybrid retrieval pipeline** using MongoDB Atlas Vector Search, keyword search, and Reciprocal Rank Fusion (RRF), with JWT authorization and asynchronous document ingestion.
- Developed a **responsive React frontend** with live transcript editing, clickable citations, subject-level AI chat, quizzes, flashcards, and an integrated study dashboard.

OrderPilot – Durable AI Order Supervision Platform | *Next.js, React, FastAPI, Temporal, PostgreSQL*

[GitHub](#)

- Built a **multi-tier, event-driven system** using Next.js, FastAPI, Temporal, and PostgreSQL with durable workflows, asynchronous signals, timers, human approvals, and failure-resilient state persistence.
- Developed an interactive **React/Next.js operations UI** with reusable components, live workflow state, dashboards, approval flows, event simulation, and responsive behavior across desktop and mobile.
- Engineered workflow durability, idempotent persistence, and failure recovery with **96 automated tests**, covering worker restarts, database failures, rejected actions, and state preservation across workflow continuations.

AWARDS & ACHIEVEMENTS

- HackFinance Hackathon, IIIT Delhi** — Secured **5th place** among 300+ teams nationwide.
- StartupThon 2025, All India 1st Place** — Built VisionV-Soft, an AI-powered digital eye care project.
- Bull's Eye Competition** — Top 7 finalist among 500+ participants nationally.
- Coordinator & Judge** — AI for Sustainability Hackathon, Canadian University Dubai (Feb 2026)