

Zoya Hassan

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SUMMARY

Computer Science student with **9.37 CGPA**, skilled in **full-stack** and **backend development**. Built scalable apps with **LLMs** and **RAG systems**; passionate about building innovative products and learning new technologies through internships.

EXPERIENCE

Cantilever Labs

June 2025 – Present

Backend Developer

- Developing **AI-powered EdTech platform** integrating multiple **LLMs** for student progress tracking and personalized learning experiences
- Implementing **QdrantDB vector database** for storing and retrieving multimodal educational content including text, images
- Building **scalable backend APIs** supporting real-time student analytics and AI-driven assessment systems

AmberFlux

December 2024 – June 2025

Backend Developer – LLM Integration Specialist

- Implemented **hybrid search in RAG systems**, enhancing search accuracy and reducing retrieval latency by **15%**
- Developed **21+ scalable REST APIs**, improving system throughput by **25%**
- Built **multimodal conversational agents** and virtual bots for voice, text, and visual inputs in applications
- Created **embedding SDK** for vector databases, optimizing AI model integrations across platforms
- Built **multi-agent workflows** with LangGraph to streamline and automate the SDLC process

BuildFastWithAI

August 2024 – November 2024

Full Stack Developer – AI/EdTech Focus

- Built **7+ AI-powered applications** using **Vercel AI SDK** and **Hugging Face APIs**, boosting user engagement by **20%**
- Revamped **EdTech platform UI/UX** and integrated backend systems with **LLM-powered features**
- Engineered **multimodal chatbots** with generative AI, driving a **15%** increase in website traffic

SKILLS

Programming Languages: Java, Python, JavaScript, C, Go

Frontend Technologies: React.js, Next.js, Tailwind CSS, HTML

Databases: MongoDB, MySQL, PostgreSQL, Neo4j

Core Subjects: Data Structures, Algorithms, DBMS, OOP, OS

AI/ML Technologies: NLP, RAG, LangChain, Vector Databases

Backend Technologies: Node.js, Express.js, FastAPI, OpenCV

Cloud & DevOps: AWS, GCP, Docker, Git, REST APIs

Soft Skills: Leadership, Problem Solving, Agile Methodology

PROJECTS

DealDetective | *Next.js, MongoDB, Gemini APIs* | [Link](#)

November 2024

- Engineered **real-time product tracking platform** with backend APIs monitoring Amazon pricing trends and email alerts
- Integrated **LLM-powered review analysis** using Gemini APIs to synthesize product feedback and generate purchase recommendations

Edumail | *AutoGen, Groq Models, Docker, Streamlit* | [Link](#)

February 2025

- Developed **AI-driven email management solution** using **RAG architecture** and **multi-agent systems** with OpenAI API integration
- Implemented **context-aware response generator** using LangChain that personalizes replies based on email content, reducing response time by **60%**

Breast Cancer Knowledge Graph | *Neo4j, LangChain, OpenAI* | [Link](#)

May 2025

- Pioneered **clinical knowledge graph explorer** using **graph-based RAG** and **OpenAI APIs** to transform unstructured medical documents
- Designed **NLP interface** with LangChain that converts natural language questions to Cypher queries for precise clinical data retrieval

ACHIEVEMENTS & LEADERSHIP

- 1st Rank Campus-wide** on GeeksforGeeks Coding Leaderboard with **700+ problem-solving score**
- Winner, Need For Code 3.0** – Developed SteadySteps AI rehabilitation platform (Codestorm)
- Winner, Codeissance Hackathon** – Created TravelEase accessibility-focused solution (CodeTantra)
- Senior Committee Member, TSEC CodeCell (2022–2025)**: Led the organization of **TSEC HACKS**, a national-level hackathon with **400+ participants**, and coordinated multiple technical events and coding competitions.

EDUCATION

Thadomal Shahani College of Engineering (TSEC), Mumbai University

Bachelor of Engineering in Computer Science — CGPA: 9.37

Mumbai, India

2022 – 2026