

AI engineering student building **privacy-first healthcare solutions** and **edge-computing AI**. Solo freshman finalist at India's largest Meta Hackathon out of **32,000+ teams**, selected for the **Top 100 Nationally**. National Top 3 INSPIRE MANAK awardee selected from **700,000+ entries** by the Government of India. I ship production-grade systems that prove powerful AI and human dignity are not trade-offs — 8+ AI projects deployed, every one designed to run locally and respect user data.

## EDUCATION

**GLA University** 2025 – Present  
B.Tech in Computer Science — Freshman

## AWARDS & RECOGNITION

- 🏆 **INSPIRE MANAK Award** — Govt. of India (DST), National Top 3 out of 700K+ entries [\[Certificate\]](#)
- Top 100 Nationally** — Meta OpenEnv Hackathon (32K+ teams, solo freshman) [\[Round 1 Certificate\]](#) [\[Round 2 Certificate\]](#)
- Selected** — UOE Summer of Code 2026 (CrisisGuard AI)

## SELECTED PROJECTS

### Annapurna — Autonomous Cold-Chain Logistics AI

TEAM PROJECT

#### AI Architect & Full-Stack Lead

- Engineered an Edge-AI powered platform that actively detects refrigeration failures in transit and autonomously reroutes perishable cargo via an intelligent distress marketplace to prevent food waste.
- Built the frontend using Next.js, integrated with a Supabase backend and LoRaWAN IoT fallbacks, ensuring continuous temperature tracking even in zero-connectivity dead zones.

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### CrisisGuard AI — Privacy-First Mental Health Crisis Detection

SELF-INITIATED

- Engineered a clinical-grade NLP engine detecting **9 crisis categories** that runs **100% in-browser** via edge computing — zero data ever leaves the device. No servers, no surveillance, just trust.
- Built a GPS-based counselor finder serving **13+ countries** with real-time proximity matching. Recognized and selected for the **UOE Summer of Code 2026**.

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### EcoNudge SDK — The Sustainability Layer for the Internet

TEAM PROJECT

#### Lead Architect & Spatial Engineer

- Architected an invisible headless React SDK with **sub-50ms latency** that injects real-time carbon-intelligence directly into e-commerce checkout flows, transforming them into ESG-compliant, gamified experiences.
- Implemented a **3D WebGL Earth visualization** with custom mathematical shaders that map live environmental metrics to a rotating globe — turning abstract carbon data into an emotionally resonant, tactile interface.

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### SynthAudit & Clinical Trial Auditor — AI Agent for Protocol Triage

META HACKATHON FINALIST

- Built an autonomous RL environment where AI agents learn to triage clinical protocol deviations. Engineered a benchmark so rigorous that **Meta's Llama 3.1 405B scored only 0.34/1**.
- Cleared Round 1 against **32,000+ teams** and trained a custom model that **increased performance by 283%**, securing a spot in the Top 100 National Finals as the **only solo freshman**.

[🔗 GitHub](#) [\[National Finalist Certificate\]](#)

### MedSafe AI — On-Device Clinical Pharmacologist

HACKATHON

- Ran a **1-Billion parameter Llama 3.2 LLM entirely in-browser** via WebGPU — zero cloud, zero latency, 100% HIPAA-compliant drug-food-supplement interaction analysis.
- Integrated local OCR prescription scanning and Web Speech API, creating a fully private on-device pharmacological assistant that keeps patient data on their hardware.

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## TECHNICAL SKILLS

Python JavaScript / TypeScript C / C++ PyTorch TensorFlow Reinforcement Learning Natural Language Processing

WebGPU Edge Computing React.js & Next.js FastAPI WebGL / Three.js Docker Git / GitHub Figma

Privacy-First Architecture

## WHY APPLE DEVELOPER ACADEMY

My work is inherently interdisciplinary — I don't just write code, I design systems at the intersection of healthcare ethics, data privacy, and spatial computing. From running billion-parameter LLMs in browsers to building 3D sustainability dashboards, I've proven that powerful AI can be invisible, local, and deeply human. I want to bring this relentless drive to the Academy's 9-month journey, collaborating with diverse minds to build technology that people genuinely trust.