

## PROJECTS

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### AUTOCLAW — Autonomous AI-Powered Job Application Agent | *Playwright + Gemini Vision API + Telegram Bot* [↗](#)

- Engineered a fully **autonomous AI agent** that discovers, evaluates, and applies to jobs across Lever, Greenhouse, Y Combinator, LinkedIn, and Internshala entirely without human intervention, leveraging **Playwright** for adaptive browser automation.
- Implemented a **Vision-Language-Action fallback** pipeline utilizing **Gemini 1.5 Flash Vision API** — dynamically injects set-of-mark bounding boxes on obfuscated DOMs, infers semantic element meaning via vision inference, and executes pixel-accurate clicks, achieving a 100% DOM bypass rate.
- Integrated **Telegram Bot** as the primary interface, enabling users to trigger and monitor the entire application pipeline through natural language, while maintaining a **privacy-first** local-execution architecture.

### HELLFLAME-GPT — AI-Powered Adversarial Roasting Platform | *Next.js + Vercel AI SDK + Groq + Gemini* [↗](#)

- Developed an adversarial AI chatbot that challenges users to outwit a **persona-driven LLM**, leveraging **Llama 3.3 70B** via Groq with custom system prompting to deliver personality-rich, contextually savage responses streamed in **real time**.
- Designed an immersive, **game-themed UI** with pixel-art mascots, procedural **particle animations**, scanline overlays, and a persistent **victim counter** — creating an arena-style experience that drives user engagement.
- Built a modular architecture supporting **multi-model selection** (Llama 3.3 70B, **Gemini**), Markdown-rendered AI responses with **syntax highlighting**, and suggested prompt cards — optimizing onboarding and interaction depth.

### ATTENDSMART — Proxy-Proof AI-Driven Attendance Platform | *MERN + Python + Socket.IO + Docker* [↗](#)

*(Smart India Hackathon 2025)*

- Developed a **multi-modal attendance system** combining face recognition (128D descriptors via dlib), BLE proximity, GPS geofencing, and barometric floor verification, achieving 95%+ accuracy and eliminating proxy attendance.
- Architected a **Python face-engine microservice** containerized in Docker for real-time identity verification, integrated with **Socket.IO** live dashboards enabling teachers to monitor check-ins, trigger peer verifications, and **reduce roll-call time by 15+ minutes per class**.
- Implemented **role-based access control** with JWT authentication, rate limiting via **Redis + BullMQ**, and a **privacy-first** on-device biometric architecture — ensuring facial data never leaves the user's machine while delivering comprehensive analytics and audit trails.

### WANDER1UST — Full-Stack Property Listings & Discovery Platform | *Node.js + Express + MongoDB* [↗](#)

- Developed a full-stack Airbnb-inspired platform enabling users to discover, list, and review properties, featuring **secure session-based authentication** via Passport.js with MongoDB-persisted sessions and **Cloudinary** integration for scalable cloud image uploads.
- Designed a **multi-level authorization** middleware enforcing ownership verification for listings and authorship validation for reviews, coupled with a regex-powered search engine across titles, locations, and countries for enhanced discoverability.
- Enforced **dual-layer data validation** using Joi on both client and server, with Mongoose post-hooks for cascading review deletion, ensuring referential integrity and a clean database state.

## TECHNICAL SKILLS

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- **Languages:** JavaScript, TypeScript, Python, Java (DSA), C++, HTML/CSS
- **Frameworks & Runtime:** React.js, Next.js, Node.js, Express.js, Socket.IO, Tailwind CSS
- **AI & Automation:** Gemini API (Vision + Text), Groq, Vercel AI SDK, Playwright, dlib, LLMs
- **Databases & Infra:** MongoDB, MySQL, Redis, Docker, BullMQ, Cloudinary
- **Developer Tools:** Git, GitHub, Postman, Vercel

## EDUCATION

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Bachelor of Engineering / **Artificial Intelligence & Machine Learning**  
East West Institute of Technology, Bangalore

*Aug '23 – Present*  
*CGPA: 8.0*

## LEADERSHIP & ACTIVITIES

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**National-Level Karate Champion** | SKF Karate – Gold & Bronze Medalist

**Karate Coach** | SKF Karate – **Instructor** to **100+ students**

**Freelancer** | **Rocksport** – Organized outdoor activities, guided groups, built teamwork & leadership

[Participant](#) | Lazarus Mission, IEEE NITK Surathkal – **Hackathon**