

Adrian Hautea

Software Engineering • Full-Stack Development • AI Systems

(817) 513-0850 | adrian.hautea@gmail.com | [linkedin.com/in/adrianhautea](https://www.linkedin.com/in/adrianhautea) | github.com/AdrianHautea

EDUCATION

The University of Texas at Dallas
M.S. Computer Science, Fast Track Program
B.S. Computer Science

Richardson, TX
Expected May 2028
Completing Dec 2026

GPA: 3.94 / 4.00 | Dean's List

Graduate Coursework (Fall 2026): Artificial Intelligence (CS 6364), Statistical Methods for Data Science (CS 6313)

Relevant Coursework: Advanced Algorithm Design & Analysis, Data Structures & Algorithms, Database Systems, Operating Systems, Computer Architecture, Systems Programming in UNIX, Software Engineering, Introduction to Machine Learning

EXPERIENCE

Webmaster / Technical Lead — UTD Filipino Student Association

May 2026 – Present

Sole engineer on a live production platform launching to 700–800 members in Aug 2026

- Led technical direction and shipped a ~29,000-line production web platform end to end, now live on a purchased domain, coordinating 6–7 collaborators across design and onboarding workflows.
- Built the full stack in **Next.js** and **TypeScript**: a 10-table **PostgreSQL** schema, 21 REST API endpoints, and 27 pages covering membership, events, attendance, payments, and officer dashboards.
- Integrated third-party services end to end — **Stripe** payments, **Google OAuth** authentication, **Amazon S3** media storage — and owned deployment on **Vercel**.

Projects Participant — ACM at UT Dallas (Simmer)

Sep 2025 – Dec 2025

- Built **Simmer**, a hands-free voice-guided cooking assistant that reads recipes aloud and answers cooking questions in real time, in a team of five.
- Developed the backend: 10+ RESTful **Flask** endpoints, the relational schema, and TikTok/YouTube ingestion converting videos into structured recipes via the **Google Gemini API**.
- Collaborated with the frontend team to integrate a React Native client, debugging cross-service communication issues and optimizing endpoint performance.
- Practiced Agile workflows — daily standups, sprint planning, iterative delivery — using GitHub for version control and peer code review.

Research Team Member — ACM Research at UT Dallas

Feb 2026 – Apr 2026

- Implemented training-pipeline components for a five-person team applying reinforcement learning (**GRPO**) to LLM code generation, improving **DeepSeek Coder 1.3B** from **5.9% to 14.0% pass@1** on the Microsoft P3 benchmark.
- Prototyped the synthetic variant-generation stage used to build a progressive difficulty curriculum from sampled programming puzzles.
- Served as primary presenter, delivering methodology and results at the ACM Research competition.

Projects Participant — AI Society at UT Dallas (ThreadConnect)

Sep 2024 – Dec 2024

- Built a multimodal search tool matching image or text queries to similar clothing items, using **OpenAI CLIP** embeddings in a **Qdrant** vector database behind a **Flask** backend.
- Delivered concept to launch in 11 weeks in a cross-functional team of five, presenting the final product to faculty, mentors, and peers.

PROJECTS

Sensora — Real-Time Study-Focus Monitor

Best Beginner Project

- Built the backend and ML layer of a hackathon prototype that scores study focus from webcam video and pushes AI-generated study nudges to an ESP microcontroller — computer vision, LLM, **Flask** API, and hardware integration in one working loop. [GitHub](#)
- Classified engagement from **OpenAI CLIP** image embeddings over a ~2,100-image dataset, fused with gaze and head-pose signals into a smoothed focus score.
- Integrated the **LangChain + Gemini** recommendation engine with a threaded Flask loop and serial output to hardware.

TECHNICAL SKILLS

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

Frameworks: Next.js, React, React Native, Node.js, Flask, PyTorch, LangChain

Data & Infrastructure: PostgreSQL, Supabase, Qdrant, REST APIs, OAuth, Stripe, AWS S3, Vercel

Tools & Practices: Git, GitHub, Postman, Agile / Scrum, code review, Google Colab