

# Adalberto Teran Castillo

adalteran@gmail.com • (210) 363-2961 • Austin, Texas •

<https://linkedin.com/in/adalberto-teran/> • <https://github.com/AdalHub>

---

## PROFESSIONAL SUMMARY

Highly skilled and results-oriented Software Developer with professional experience in AI/ML, Large Language Models, and full-stack application development. Proven ability to optimize cloud resource usage, build robust backend systems, and deploy scalable solutions on Google Cloud Platform. Demonstrated leadership in AI communities and a strong foundation in computer science and mathematics, eager to contribute to innovative technological advancements.

## PROFESSIONAL EXPERIENCE

---

### Junior Software Developer

Jun 2023 - Aug 2025

OHEL TECHNOLOGIES, Austin, TX

- Implemented asynchronous Python pipelines utilizing asyncio and aiohttp to parallelize external API calls and LLM requests, significantly reducing agent turnaround time and improving system throughput under load.
- Developed typed, modular Python components and Flask REST API endpoints with type hints and Pydantic schema validation, enhancing AI agent reliability, maintainability, and backend integration.
- Optimized resource usage on Google Cloud Platform, leading to a ~20% reduction in operational costs.
- Engineered LLM-powered agents using OpenAI for advanced document interpretation and information extraction.
- Contributed to test automation initiatives using Python's Pytest, resulting in a 25% reduction in defects.
- Constructed Retrieval-Augmented Generation (RAG) pipelines, integrating Google Search and domain-specific API outputs into unified data structures stored in a centralized ML database.
- Deployed Elasticsearch for high-speed vector retrieval, enabling sub-second access to processed knowledge artifacts and enhancing AI-driven workflows.
- Developed prompt-engineering frameworks for classification, summarization, and structured schema extraction with JSON mode, achieving greater than 40% reduction in error rates.
- Developed and deployed full-stack chatbot interfaces using React (JavaScript), Node.js, and HTML/CSS via Google Cloud App Engine, ensuring reliable uptime, autoscaling, and seamless backend integration.

### Founder & Lead Software Engineer

Aug 2025 - Present

ATC WEB SOLUTION, Austin, TX

- Delivered full-stack applications for small businesses utilizing React (JavaScript), Node.js, and HTML/CSS, with a focus on continuous client feedback for fast iteration and high-quality outcomes.
- Managed version control processes using Git and provided troubleshooting support for front-end bugs.

## EDUCATION

---

### Bachelor of Science in Computer Science; Minor in Mathematics

Dec 2024

TEXAS STATE UNIVERSITY

AI Machine Learning Club (Board Member, 400+ members)

### Associate of Business Administration

Dec 2020

AUSTIN COMMUNITY COLLEGE

DECA business club member (500+ members)

## TECHNICAL SKILLS

---

Python	React	SQL
NoSQL	JavaScript	TypeScript
HTML/CSS	Bash scripting	Google Cloud Platform
Git	Docker	Unit Testing
PyTest	Pydantic	Flask
FastAPI	pandas	NumPy
scikit-learn	Agile/Scrum	Microservices Architecture
CI/CD	Prompt Engineering	Leadership
Startups	Artificial Intelligence (AI)	Machine Learning (ML)
Large Language Models (LLMs)	Chatbot	Industrial IoT (IIoT)
Software Architecture	Offshore/Nearshore Outsourcing	Project Management
Spanish (native)	English (fluent)	