

# Adalberto Teran Castillo

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

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

---

## PROFESSIONAL SUMMARY

---

Highly motivated Junior Software Developer with a Bachelor of Science in Computer Science and a minor in Mathematics, specializing in Artificial Intelligence, Machine Learning, and Large Language Models. Proven ability to build full-stack applications, optimize cloud resources (GCP), and develop robust Python-based AI agents, including RAG pipelines and prompt engineering frameworks. Experienced in improving system reliability, reducing operational costs, and enhancing user experiences through both backend and frontend development.

## PROFESSIONAL EXPERIENCE

---

### 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, integrating continuous client feedback to ensure fast iteration and high-quality outcomes.
- Managed version control processes using Git and provided troubleshooting support for front-end bugs.

### Junior Software Developer

Jun 2023 - Aug 2025

*OHEL TECHNOLOGIES, Austin, TX*

- Implemented asynchronous Python pipelines (asyncio, aiohttp) to parallelize external API calls and LLM requests, effectively reducing agent turnaround time and improving throughput under load.
- Developed LLM-powered agents using OpenAI for advanced document interpretation and information extraction tasks.
- Built RAG (Retrieval-Augmented Generation) pipelines, merging 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 improving AI-driven workflows across the platform.
- Developed prompt-engineering frameworks for classification, summarization, and structured schema extraction with JSON mode, leading to a reduction in error rates by >40%.
- Built typed, modular Python components and Flask REST API endpoints utilizing type hints and Pydantic schema validation, enhancing AI agent reliability, maintainability, and backend integration.
- Reduced operational costs by approximately 20% through optimizing resource usage on Google Cloud Platform.
- Developed full-stack chatbot interfaces with React (JavaScript), Node.js, and HTML/CSS, and deployed them via Google Cloud App Engine, ensuring reliable uptime, autoscaling, and seamless integration with backend Python endpoints.
- Collaborated on test automation initiatives using Python's Pytest, contributing to a 25% reduction in defects.

## EDUCATION

---

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

Dec 2024

*TEXAS STATE UNIVERSITY*

Leadership: 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)	