

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)	