

Adalberto Teran Castillo

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PROFESSIONAL SUMMARY

Highly motivated Junior Software Developer and Founder with a strong background in AI/ML, Large Language Models (LLMs), and full-stack development. Proven ability to build and deploy robust, scalable solutions on Google Cloud Platform, optimize system performance, and reduce operational costs. Adept at prompt engineering, asynchronous Python pipelines, and developing responsive chatbot interfaces using React and Node.js. Seeking to leverage expertise in software architecture, cloud technologies, and AI agent development.

PROFESSIONAL EXPERIENCE

Founder & Lead Software Engineer

Aug 2025 - Present

ATC WEB SOLUTION, Austin, TX

- Delivered full-stack applications for small businesses using React (JavaScript), Node.js, and HTML/CSS, integrating continuous client feedback for fast iteration and high-quality outcomes.
- Managed version control processes utilizing Git and supported troubleshooting 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, significantly reducing AI agent turnaround time and improving throughput under load.
- Built typed, modular Python components and Flask REST API endpoints with 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 and deployed LLM-powered agents using OpenAI for document interpretation and information extraction.
- Collaborated on test automation initiatives using Python's Pytest, contributing to a 25% reduction in software defects.
- Constructed Retrieval-Augmented Generation (RAG) 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 enhancing 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 over 40%.
- 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.

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)	