Adalberto Teran Castillo

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PROFESSIONAL SUMMARY

Full-stack Software Engineer Intern candidate with experience in Python backend development (Flask, FastAPI), REST API design, and frontend development using React and JavaScript/TypeScript. Proficient in cloud platforms like Google Cloud Platform (GCP) and experienced with database technologies (SQL, NoSQL, Elasticsearch). Demonstrated ability to design, build, and deploy software solutions, including LLM-powered applications and scalable web interfaces, with a strong understanding of data structures and object-oriented programming. Eager to contribute to innovative engineering teams and build impactful products.

PROFESSIONAL EXPERIENCE

Junior Software Developer
Jun 2023 - Aug 2025

OHEL TECHNOLOGIES, Austin, TX

‣ Developed full-stack chatbot interfaces using React (JavaScript), Node.js, and HTML/CSS, deploying them via Google Cloud App Engine to ensure reliable uptime, autoscaling, and seamless integration with backend Python endpoints.

‣ Built typed, modular Python components and Flask REST API endpoints using type hints and Pydantic schema validation, improving AI agent reliability, maintainability, and backend integration.

‣ Implemented asynchronous Python pipelines (asyncio, aiohttp) to parallelize external API calls and LLM requests, reducing agent turnaround time and improving throughput under load.

‣ Reduced operational costs by ~20% through optimizing resource usage on Google Cloud Platform.

‣ Built 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 improving AI-driven workflows across the platform.

‣ Collaborated on test automation initiatives using Python's Pytest, cutting defects by 25%, aligning with CI/CD practices.

‣ Developed prompt-engineering frameworks for classification, summarization, and structured schema extraction with JSON mode, reducing error rates by >40%.

‣ Built LLM-powered agents (OpenAI) for document interpretation and information extraction.

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, ensuring fast iteration and high-quality outcomes through continuous client feedback.

‣ Managed version control processes (Git) and supported troubleshooting for front-end bugs.

EDUCATION

Bachelor of Science in Computer Science; Minor in Mathematics
Dec 2024

TEXAS STATE UNIVERSITY

Leadership: AI Machine Learning Club (Board Member, 400+ members), Coursework: Intro to Machine Learning, Structures & Algorithms (C++ projects), Operating Systems (shell scripting), Database Normalization, Discrete Mathematics

Associate of Business Administration
Dec 2020

AUSTIN COMMUNITY COLLEGE

DECA business club member (500+ members), Coursework: Accounting, Principles of Microeconomics, Economics

TECHNICAL SKILLS

Python	React	SQL
NoSQL	JavaScript	TypeScript
HTML/CSS	Bash scripting	Google Cloud Platform
Git	Docker	Unit Testing
PyTest	Pydantic	Flask
FastAPI	Agile/Scrum	Microservices Architecture
CI/CD	Prompt Engineering	Artificial Intelligence (AI)
Machine Learning (ML)	Large Language Models (LLMs)	Chatbot
Software Architecture		