Adalberto Teran Castillo

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PROFESSIONAL SUMMARY

Highly motivated and results-driven Junior Software Developer with a Bachelor of Science in Computer Science and a Minor in Mathematics. Proven ability to build, optimize, and deploy full-stack applications and AI-powered solutions. Expertise includes Python, React, Flask, Node.js, and Google Cloud Platform, with a track record of reducing operational costs by ~20%, improving throughput, and cutting defects by 25% through test automation and prompt engineering.

PROFESSIONAL EXPERIENCE

Junior Software Developer   Jun 2023 - Aug 2025

OHEL TECHNOLOGIES, Austin, TX

- Developed and deployed full-stack chatbot interfaces utilizing React (JavaScript), Node.js, and HTML/CSS on Google Cloud App Engine, ensuring reliable uptime, autoscaling, and seamless integration with backend Python endpoints.
- Implemented asynchronous Python pipelines (asyncio, aiohttp) to parallelize external API calls and Large Language Model (LLM) requests, significantly reducing agent turnaround time and improving throughput under load.
- Optimized resource usage on Google Cloud Platform, leading to a reduction in operational costs by ~20%.
- Built robust, typed, and modular Python components, including Flask REST API endpoints, leveraging type hints and Pydantic schema validation to improve AI agent reliability, maintainability, and backend integration.
- Engineered LLM-powered agents using OpenAI for advanced document interpretation and information extraction tasks.
- Developed prompt-engineering frameworks for classification, summarization, and structured schema extraction with JSON mode, which reduced error rates by >40%.
- Constructed Retrieval-Augmented Generation (RAG) pipelines that merged outputs from Google Search and domain-specific APIs 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.
- Contributed to test automation initiatives using Python's Pytest framework, resulting in a 25% reduction in reported defects.

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, emphasizing continuous client feedback for rapid iteration and high-quality project outcomes.
- Managed version control processes with Git and provided troubleshooting support for front-end bugs, ensuring robust development workflows.

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	English	CompTIA A+
Supervised Machine Learning: Regression and Classification		