Adalberto Teran Castillo

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PROFESSIONAL SUMMARY

Experienced Junior Software Developer with a strong foundation in Python backend development, specializing in AI/ML/LLM-powered solutions. Proven ability to design, develop, and deploy scalable applications using modern cloud platforms like Google Cloud Platform, and implement robust testing frameworks. Adept at creating modular, maintainable code, optimizing performance, and collaborating effectively within cross-functional teams to deliver high-quality software solutions.

PROFESSIONAL EXPERIENCE

Junior Software Developer   Jun 2023 - Aug 2025

OHEL TECHNOLOGIES, Austin, TX

- Designed and developed high-performance, event-driven backend services using Python (asyncio, aiohttp) to parallelize external API and LLM requests, significantly reducing agent turnaround time and enhancing system throughput under load.
- Architected and built typed, modular Python components and Flask REST API endpoints, leveraging type hints and Pydantic schema validation to ensure robust AI agent reliability, maintainability, and seamless backend integration.
- Optimized resource utilization on Google Cloud Platform, achieving approximately 20% reduction in operational costs for backend services.
- Developed and deployed LLM-powered agents (OpenAI) for advanced document interpretation and precise information extraction tasks.
- Actively collaborated on test automation initiatives, implementing Python's Pytest framework to effectively reduce software defects by 25%.
- Constructed RAG (Retrieval-Augmented Generation) pipelines, unifying data from Google Search and domain-specific APIs into a centralized ML database to enhance AI agent capabilities.
- Implemented Elasticsearch for high-speed vector retrieval, enabling sub-second access to critical knowledge artifacts and significantly improving AI-driven workflows.
- Developed advanced prompt-engineering frameworks for AI agents, specializing in classification, summarization, and structured schema extraction using JSON mode, resulting in over 40% reduction in error rates.
- Engineered and deployed full-stack chatbot interfaces leveraging Google Cloud App Engine for reliable uptime and autoscaling, ensuring seamless integration with Python backend endpoints.

Founder & Lead Software Engineer   Aug 2025 - Present

ATC WEB SOLUTION, Austin, TX

- Delivered full-stack applications for small businesses, managing client feedback and ensuring high-quality outcomes and rapid iteration.
- Managed Git version control processes and provided troubleshooting support, demonstrating strong foundational software development practices.

EDUCATION

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

TEXAS STATE UNIVERSITY

Associate of Business Administration   Dec 2020

AUSTIN COMMUNITY COLLEGE

TECHNICAL SKILLS

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