

# Adalberto Teran Castillo

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## PROFESSIONAL SUMMARY

Highly skilled and results-oriented Software Developer with robust experience in Artificial Intelligence (AI), Machine Learning (ML), and Large Language Models (LLMs) development. Proven ability to build full-stack applications, optimize cloud resources on Google Cloud Platform, and implement efficient Python pipelines. Adept at developing AI agents, RAG pipelines, and prompt engineering frameworks, complemented by strong front-end skills in React and Node.js for comprehensive web solutions.

## PROFESSIONAL EXPERIENCE

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### Junior Software Developer

Jun 2023 - Aug 2025

OHEL TECHNOLOGIES, Austin, TX

- Engineered and implemented asynchronous Python pipelines using asyncio and aiohttp to parallelize external API and LLM requests, significantly reducing agent turnaround time and enhancing throughput under load.
- Developed typed, modular Python components and Flask REST API endpoints with type hints and Pydantic schema validation, improving AI agent reliability, maintainability, and backend integration.
- Achieved a ~20% reduction in operational costs by optimizing resource usage on Google Cloud Platform (GCP).
- Constructed LLM-powered agents utilizing OpenAI for advanced document interpretation and information extraction.
- Contributed to test automation initiatives using Python's Pytest, resulting in a 25% reduction in defects.
- Developed Retrieval-Augmented Generation (RAG) pipelines, integrating Google Search and domain-specific API outputs into unified data structures within a centralized ML database.
- Implemented Elasticsearch for high-speed vector retrieval, facilitating sub-second access to processed knowledge artifacts and enhancing AI-driven workflows.
- Designed and developed prompt-engineering frameworks for classification, summarization, and structured schema extraction using JSON mode, reducing error rates by over 40%.
- Developed and deployed full-stack chatbot interfaces using React, JavaScript, Node.js, and HTML/CSS on Google Cloud App Engine, ensuring reliable uptime, autoscaling, and seamless integration with backend Python endpoints.

### Founder & Lead Software Engineer

Aug 2025 - Present

ATC WEB SOLUTION, Austin, TX

- Delivered full-stack web applications for small businesses utilizing React, JavaScript, Node.js, and HTML/CSS, integrating continuous client feedback to ensure rapid iteration and high-quality solutions.
- Managed Git-based version control processes and provided troubleshooting support for front-end bugs.

## EDUCATION

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### 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

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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