

# Adalberto Teran Castillo

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## PROFESSIONAL SUMMARY

Highly motivated and results-oriented Junior Software Developer with hands-on experience in building and deploying full-stack data solutions, specializing in Python-driven data pipelines, cloud-based architectures on Google Cloud Platform, and AI/ML agent development. Proven ability to optimize resource usage, reduce operational costs by ~20%, and cut defects by 25% through test automation. Skilled in leveraging technologies like Python, SQL, Flask, React, Docker, and TypeScript to deliver robust and scalable applications, eager to contribute to a centralized analytics platform and data lake environment.

## PROFESSIONAL EXPERIENCE

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### Junior Software Developer

Jun 2023 - Aug 2025

OHEL TECHNOLOGIES, Austin, TX

- Implemented asynchronous Python pipelines using asyncio and aiohttp to parallelize external API calls and LLM requests, significantly reducing agent turnaround time and improving data processing throughput under load, demonstrating experience in data pipelines/frameworks development.
- Reduced operational costs by ~20% through optimizing resource usage on Google Cloud Platform, showcasing hands-on experience with cloud-based technologies.
- Built Retrieval-Augmented Generation (RAG) pipelines, merging Google Search and domain-specific API outputs into unified data structures stored in a centralized ML database, directly contributing to the data solution lifecycle and data storage.
- Deployed Elasticsearch for high-speed vector retrieval, enabling sub-second access to processed knowledge artifacts and improving AI-driven workflows across the platform, emphasizing data access and speed.
- Built LLM-powered agents using OpenAI for document interpretation and information extraction, demonstrating practical application of AI and data analysis techniques.
- Developed prompt-engineering frameworks for classification, summarization, and structured schema extraction with JSON mode, reducing error rates by >40%, enhancing data processing and reliability.
- 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.
- Collaborated on test automation initiatives using Python's Pytest, cutting defects by 25%, demonstrating a commitment to quality and problem-solving.
- 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.

### 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, incorporating continuous client feedback to ensure fast iteration and high-quality outcomes.
- Managed version control processes (Git) and supported troubleshooting for front-end bugs, demonstrating strong software development practices.

## 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), 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

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Python	SQL	NoSQL
JavaScript	TypeScript	React
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)	