

Adalberto Teran Castillo

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PROFESSIONAL SUMMARY

Highly motivated Computer Science student and Full Stack Software Developer with experience in designing, building, and deploying software solutions, including APIs, backend services, and user interfaces. Proven ability to leverage Python, JavaScript/TypeScript, React, and cloud platforms like Google Cloud Platform to solve real-world problems and ship impactful features. Seeking to contribute to an innovative engineering community, applying strong understanding of data structures, object-oriented programming, and API development to shape the future of connectivity and technology.

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, seamlessly integrating with backend Python endpoints.
- Implemented Flask REST API endpoints and typed, modular Python components using type hints and Pydantic schema validation, enhancing AI agent reliability and backend integration.
- Engineered asynchronous Python pipelines (asyncio, aiohttp) to parallelize external API calls and LLM requests, significantly reducing agent turnaround time and improving throughput.
- Built LLM-powered agents (OpenAI) for efficient document interpretation and information extraction, leveraging advanced prompt-engineering frameworks.
- Optimized resource usage on Google Cloud Platform, resulting in a reduction of operational costs by ~20%.
- Deployed Elasticsearch for high-speed vector retrieval, enabling sub-second access to processed knowledge artifacts and improving AI-driven workflows.
- Collaborated on test automation initiatives using Python's Pytest, contributing to a 25% reduction in 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, ensuring high-quality outcomes through continuous client feedback.
- Managed version control processes using Git and provided troubleshooting support for front-end issues.

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	JavaScript	TypeScript
React	Flask	Node.js
HTML/CSS	SQL	NoSQL
Google Cloud Platform (GCP)	Docker	Git
REST API Development	Object-Oriented Programming (OOP)	Data Structures
Microservices Architecture	Agile/Scrum	CI/CD (Methodology)
Prompt Engineering	Artificial Intelligence (AI)	Machine Learning (ML)
Large Language Models (LLMs)	Chatbot Development	Software Architecture
Bash scripting	Unit Testing	PyTest
Pydantic		