

# Adalberto Teran Castillo

adalteran@gmail.com • (210) 363-2961 • Austin, Texas •

<https://linkedin.com/in/adalberto-teran/> • <https://github.com/AdalHub>

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## PROFESSIONAL SUMMARY

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Highly skilled and results-oriented Software Developer with professional experience in AI/ML, Large Language Models, and full-stack application development. Proven ability to optimize cloud resource usage, build robust backend systems, and deploy scalable solutions on Google Cloud Platform. Demonstrated leadership in AI communities and a strong foundation in computer science and mathematics, eager to contribute to innovative technological advancements.

## PROFESSIONAL EXPERIENCE

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### Junior Software Developer

Jun 2023 - Aug 2025

*OHEL TECHNOLOGIES, Austin, TX*

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

### Founder & Lead Software Engineer

Aug 2025 - Present

*ATC WEB SOLUTION, Austin, TX*

- Delivered full-stack applications for small businesses utilizing React (JavaScript), Node.js, and HTML/CSS, with a focus on continuous client feedback for fast iteration and high-quality outcomes.
- Managed version control processes using Git 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*

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 (native)             | English (fluent)               |                            |