Adalberto Teran Castillo

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PROFESSIONAL SUMMARY

Highly motivated Computer Science student with a minor in Mathematics and a strong foundation in machine learning, data analysis, and software development. Experienced in building and optimizing Python-based data pipelines, leveraging Large Language Models (LLMs) for document interpretation and information extraction, and deploying scalable solutions on Google Cloud Platform. Adept at transforming complex data into actionable insights, improving system reliability, and reducing operational costs. Seeking to apply analytical skills and technical expertise to real-world data science challenges as a Jr. Data Scientist.

PROFESSIONAL EXPERIENCE

Junior Software Developer   Jun 2023 - Aug 2025
OHEL TECHNOLOGIES, Austin, TX

- Developed and optimized asynchronous Python pipelines for parallelizing API and LLM requests, significantly reducing agent turnaround time and enhancing data processing throughput.
- Designed and implemented Retrieval-Augmented Generation (RAG) pipelines, integrating Google Search and API data into unified data structures within a centralized ML database for enhanced analytical capabilities.
- Deployed Elasticsearch for high-speed vector retrieval, providing sub-second access to processed knowledge artifacts and optimizing AI-driven data workflows across the platform.
- Constructed Large Language Model (LLM)-powered agents using OpenAI for advanced document interpretation and precise information extraction from unstructured data.
- Developed advanced prompt-engineering frameworks for machine learning tasks including classification, summarization, and structured schema extraction, leading to over 40% reduction in data extraction error rates.
- Optimized resource usage on Google Cloud Platform, leading to a 20% reduction in operational costs for data processing infrastructure.
- Engineered robust and maintainable Python components and Flask REST API endpoints with Pydantic for schema validation, enhancing AI agent reliability and backend data integration.
- Collaborated on Python-based test automation using Pytest, contributing to a 25% reduction in defects and improving data solution quality.
- Developed and deployed full-stack chatbot interfaces on Google Cloud App Engine, ensuring reliable uptime and seamless integration with backend Python data processing endpoints.

Founder & Lead Software Engineer   Aug 2025 - Present
ATC WEB SOLUTION, Austin, TX

- Delivered custom full-stack applications for small businesses, integrating continuous client feedback to ensure high-quality outcomes and customer satisfaction.
- Managed version control processes (Git) and provided technical support for troubleshooting, contributing to robust project delivery.

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	SQL	NoSQL
JavaScript	Google Cloud Platform	Git
Docker	Unit Testing	Pytest
Pydantic	Flask	FastAPI
pandas	NumPy	scikit-learn
Agile/Scrum	Prompt Engineering	Leadership
Artificial Intelligence (AI)	Machine Learning (ML)	Large Language Models (LLMs)
Chatbot	Software Architecture	