# Adamo Figueroa
## Software Engineer / Data Specialist

**Email:** adamo.figueroa@gmail.com
**Portfolio:** https://resume.adamo-figueroa.workers.dev

Full Stack Developer with deep expertise in **data-driven** architectures—from **ETL** pipelines and data analysis using **Python** to modern **LLM** integrations and **AI orchestration**. Expert with **Angular** and **TypeScript**, which I've used since their very first versions and through every major release. Extensive **Google Cloud** experience, exploring on-premises infrastructure that potentially saves thousands on GPU-intensive ML and AI operations, orchestrating **Docker Compose** environments, and building end-to-end solutions. I keep up with emerging technology and relevant **open source** projects, self-hosting my projects and **AI models**.

I consider myself a '*Swiss Army knife developer*' combining cloud-native practices, local deployment, coding, and AI automation, committed to continuous learning and knowledge sharing.

## Education

**Computer Engineering** Bachelor Degree

**Languages**
- Spanish (Native)
- English (Conversational)
- Portuguese (Beginner)

**Certification**
- May 2019 Google Professional Cloud Architect

## Soft Skills
- Proactive
- Team Player
- Ownership
- Creative Intelligence

## Technical Skills
- Machine Learning / AI
- Cloud Solutions
- Web/Mobile Frontend Development
- Backend Development
- Data Analysis

## Technologies

- React
- TypeScript
- Ionic
- Java
- C#
- Node
- Python
- Angular
- Firebase
- NextJs
- Gnu/Linux
- Jupiter NB

- Go
- JavaScript
- LLMs
- Spring Boot
- LangChain
- Express
- Django
- Data Studio
- Azure
- C
- Unix
- Batch/Shell

- GCP products
- Spark
- RXJS
- MySQL
- Sql Server
- BigQuery
- Git
- Pandas
- CSS
- DevOps
- Mongo DB
- FastApi

## Job Experience

**02/2025** … 

### Control Markets — Full Architect
- Built **open-source** visual **workflow engine** for **AI agent orchestration** with context-aware and **smart nodes** that adapt based on graph topology. **Pioneered Agentic Persona Engineering** concept enabling dynamic multi-modal content generation (text/audio/video) through **LLMs** and customizable AI personas.

### Instinto X — AI Engineer and Consultor
- Built **React** App privacy-first chat service with E2E encryption delivering role-play coaching through fine-tuned Llama-3 **model trained** on 200K curated conversations, focused on masculine self-development and confidence building

**05/2022** **01/2025**

### Walmart — Senior Software engineer
- Led **important** proof-of-concept replicating Coupa's **supply chain optimization** platform achieving **99% accuracy** across several scenarios by implementing **linear programming** (PuLP) solution that processed **100K+ variables**—validating feasibility for potentially replace a multi-million dollar proprietary platform

- Architected and executed migration of **3M+ rows** from legacy systems by building automated **Python pipelines** to extract data from 6-7 proprietary APIs (where direct database access was restricted), **reverse-engineering** the original **schema**, and designing a normalized **relational model** for the modernized platform

- Implemented **micro-frontend** architecture using Angular and Nx, enabling component reusability across multiple Walmart projects and **reducing** redundant development **effort**

**04/2021** **05/2022** **Ksquare Group** — Contractor in CBRE Real Estate Services

**02/2018** **10/2020** **Capgemini - GNP** — Consultor in the largest Insurance in Mexico
- Delivered company's **first** production **machine learning model** for car claims prediction achieving **90% accuracy** and <1.05 error rate on 70% of predictions, empowering management with data-driven insights that **reduced** operational **costs** and improved service delivery

- **Rescued** failing Institutional Memory application (confidential document management system) by **redesigning architecture** and leading 2-person team to rebuild from scratch in **3 months**—replacing a failed 9-month effort by 30 external contractors

*Check web porfolio for complete experience*

## Personal Projects Links

*Control Markets*     *Dataclouder*     *Medium blog*