

Amando Martínez

Backend · Data & AI Engineer

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PROFILE

I'm a backend engineer who drifted into data and AI because that is where the interesting failure modes are. Most of my work is the part users never see: pipelines that ingest messy external sources, APIs that stay boring under load, and LLM stages that are measured rather than guessed at.

I build and automate systems with AI in the loop — not as a demo, but as the way the work gets done. That means LLM agents wired into real engineering workflows, custom tooling and MCP integrations around them, and evaluation harnesses so a model or prompt change is an experiment with a number attached instead of an argument.

EXPERIENCE

Senior Software Engineer — Backend, Data & AI · Datamaran Aug 2022 — Present

- Designed and shipped LLM-backed classification stages for the regulatory pipeline, replacing hand-maintained rules and holding quality while cutting per-document cost.
- Moved a batch report-processing workload onto Airflow, turning an opaque long-running job into observable, retryable tasks.
- Built FastAPI services over PostgreSQL and MongoDB following a strict repository → application → endpoint contract, so business rules live in one testable layer.
- Automated recurring engineering and delivery workflows with LLM agents and custom tooling, and build most of my systems with AI in the loop — design, implementation and iteration.
- Contributed to the Vue 3 front end (PrimeVue, Pinia) for the features I own end to end.

Software Engineer · Previous company

Jan 2019 — Jul 2022

- Outcome one.
- Outcome two.

SELECTED PROJECTS

Turnos Parcelas · 2025 — present

Monthly invoicing went from a full afternoon of manual work to a few clicks. The system has been running unattended in production since 2026, including a multi-email client notification flow and a PDF invoice layout that survives the printer.

Python · PostgreSQL · Neon · Railway · Vue

Fantasy Voley · 2024 — present

A working league with real players in it, refreshed automatically through the season, and a data model that survived a federation site redesign without a rewrite.

Python · PostgreSQL · Neon · Railway · Vue

Regulatory intelligence pipeline · 2023 — present

Classification stages that used to take weeks of rule-writing now take a prompt change and an evaluation run. Batch report processing moved onto Airflow in the same period, turning an opaque multi-hour job into observable, individually retryable tasks.

Python · FastAPI · Airflow · PostgreSQL · MongoDB · LLMs · AWS

SKILLS

Languages: Python · TypeScript · JavaScript · SQL

Backend: FastAPI · asyncio · SQLAlchemy · Pydantic · REST API design

Building & automating with AI:

AI-assisted development (Claude Code, agentic workflows) · Automating engineering workflows with LLM agents · Systems designed, built and iterated with AI in the loop · Custom tooling & MCP integrations · Evaluation harnesses for LLM features

Data & AI: Airflow · LLM pipelines · Prompt & eval design · Elasticsearch · ETL

Storage: PostgreSQL · MongoDB · Redis

Platform: AWS · Docker · Kubernetes · GitHub Actions · Grafana · Sentry

Front end: Vue 3 · Astro · Tailwind CSS

EDUCATION

Degree in Computer Engineering

University · 2015–2019

LANGUAGES

Spanish: Native

English: Professional working proficiency