Alejandro Ordenes

AI Engineer and Full Stack Developer | LLMs, RAG and AI Agents | Python, TypeScript

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PROFESSIONAL SUMMARY

Full Stack Developer with 3 years of experience, the most recent one focused on generative AI: production AI agents powered by LLMs (Claude / Anthropic API) and RAG systems with quality evaluation. I build end to end: REST APIs with FastAPI and Next.js, PostgreSQL and pgvector databases, agents with LangGraph, observability with LangSmith, automated tests and CI/CD with GitHub Actions. I deploy on Linux with Docker and on AWS with Amazon Bedrock.

TECHNICAL SKILLS

- **Generative AI and LLMs:** Claude (Anthropic API), OpenAI API, Amazon Bedrock, RAG, vector search, embeddings, AI agents, LangGraph, LangChain, prompt engineering, structured outputs (JSON), conversational memory, MCP (Model Context Protocol)
- **LLM evaluation and observability:** LangSmith (traces, datasets and experiments), golden sets, LLM-as-a-judge, retrieval and faithfulness metrics, per-token cost control
- **Languages:** Python, TypeScript, JavaScript, Java, SQL
- **Backend and APIs:** FastAPI, REST APIs, Next.js, Node.js, Django, Django REST Framework, Spring Boot, JWT, webhooks, WhatsApp Cloud API
- **Data:** PostgreSQL, pgvector, MongoDB, Supabase, pandas, NumPy, web scraping, data pipelines
- **Cloud and DevOps:** AWS (Bedrock, Lambda, RDS), Docker, Docker Compose, Linux, Nginx, GitHub Actions (CI/CD), Git
- **Testing and quality:** pytest, mocks, ruff, API testing
- **Frontend and mobile:** React, Redux, React Native

EXPERIENCE

AI Engineer and Full Stack Developer, LabNomade (AI and automation agency) | Remote, Chile | Nov 2025 - Present

- Designed and built LLM-based conversational AI agents (Claude) for WhatsApp, running in production on the sales channel: they qualify leads, answer inquiries, generate a structured summary and notify the team by email when a lead qualifies.
- Integrated the agents with the WhatsApp Cloud API and a custom REST API (Next.js and TypeScript) that feeds the model each lead's data and history from PostgreSQL, secured with scoped API key authentication.
- Implemented validation and control: structured JSON outputs, per-user message limits, repeated-message detection and automatic cutoff when a conversation stalls.
- Measured the agents' cost per message (about 12,000 input tokens, USD 0.027 per message) to inform pricing and optimizations.
- Built a multi-tenant web dashboard (Next.js, PostgreSQL, JWT) where each client reviews their conversations and leads.
- Use Claude Code daily for development, connected through MCP servers to external tools such as n8n and browser automation.
- Deploy and manage infrastructure on Linux: Docker, PostgreSQL, Nginx and SSL.

Full Stack Developer, Freelance | Sep 2023 - Oct 2025

- Built custom websites and web applications for clients, end to end: React and Next.js frontends, Django and REST API backends, and PostgreSQL databases.
- Built dashboards and web scraping processes to collect and structure data from external sources.
- Deployed and maintained applications on Linux servers with Nginx as a reverse proxy and CI/CD pipelines.

Mobile Developer (Internship), BIGEO | Sep 2022 - Jan 2023

- Developed features for a cross-platform agricultural management mobile app using React Native.

Full Stack Developer (Internship), Dynae | Jul 2022 - Sep 2022

- Developed backend (Java, Spring Boot) and frontend (JavaScript) features for envia.cl, a client's web platform, within an existing codebase and the team's workflow.

PROJECTS

Compras Públicas AI: RAG and agent for Chile's public procurement | Python, FastAPI, PostgreSQL, pgvector, Claude, LangGraph, LangSmith, AWS | 2026

- RAG system over Chile's Public Procurement Law 19.886 and its regulations: parsing and article-level chunking, embeddings, vector search in pgvector and query rewriting before retrieval.
- LangGraph agent that combines the regulations with real tenders synced from the Mercado Público API, with a personal data filter.
- Golden-set evaluation: 87% retrieval coverage and 33 of 36 answers rated faithful by an LLM judge; traces, datasets and experiments in LangSmith.
- FastAPI service with 51 pytest tests using mocks and CI on GitHub Actions (ruff and pytest). Deployed on AWS (Amazon Bedrock, Lambda and RDS). Code at github.com/AlejandroOrdenes/compras-publicas-ai.

StartTrend | Java 17, Spring Boot, MongoDB, OpenAI API | Oct - Nov 2025

- Autonomous generative AI pipeline: scrapes TechCrunch and VentureBeat every 30 minutes, summarizes each story with GPT-4o-mini and produces daily analysis articles as structured JSON, in batches and without fabricating sources.
- Illustrates each article with OpenAI's Responses API. REST API with JWT and API key, deployed with GitHub Actions. Code at github.com/AlejandroOrdenes/starttrend.

ArbStrat | Python, Django REST Framework, pandas, statsmodels, React | 2023

- Full stack crypto statistical arbitrage application: Engle-Granger cointegration, hedge ratio, half-life and z-score, with scheduled tasks, email alerts, paper trading, JWT and 28 automated tests. Code at github.com/AlejandroOrdenes/arbstrat.

Futures Backtesting Engine | Python, pandas, Parquet

- Simulates strategies on 2 years of 1-minute ES and NQ candles (1.4 million candles) against prop-firm risk rules, with incremental data downloads from an external API.

EDUCATION

Computer Programmer Analyst (Analista Programador Computacional), Duoc UC | 2021 - 2023

Java / Spring Boot Bootcamp, Alkemy | Feb 2022

LANGUAGES

Spanish: Native | English: B1