


IVÁN CÓRDOVA

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Education

Pontifical Catholic University of Peru

Lima, Peru

BEng in Informatics Engineering, Minor in Artificial Intelligence

- **Award:** Best Bachelor Thesis for “Implementation of the Whale Optimization Algorithm in Financial Processes”.

Experience

Indra

Lima, Peru

AI Technical Lead

Feb 2025 - Current

- Architected and shipped an on-prem document QA pipeline for Peru’s public registry (SUNARP) processing 1M+ images/day using Python, YOLOv11, and OpenVINO behind FastAPI; achieved 80% mAP@0.5 and 12 ms/image on CPU via batching, replacing a manual QA workflow handled by a 15-person team.
- Built and launched a multi-tenant chatbot platform on AWS (FastAPI + Next.js) with agentic RAG and DSPy prompt optimization, delivering less than 500 ms p95 latency and 96% task accuracy; onboarded 5 internal teams and iterated using Logfire telemetry and customer feedback.
- Designed and implemented an AI recruiting platform for Indra, working end-to-end across backend (FastAPI, serverless AWS) and frontend (React); onboarded 500k+ CVs and used hybrid search with cross-encoder reranking to surface top candidates for Indra’s hiring pipeline. OCR scaled with Modal infrastructure using A100 GPUs and batch optimization.
- Led a 5-engineer squad, shipping 3 enterprise projects in 9 months and delivering 10+ AI PoCs (typically 2–3 days each) for leading banks and insurance companies in Peru and Latin America, establishing a fast iteration and experimentation culture.

Astral Insights

Raleigh Nc, USA

Senior AI Engineer

Apr 2024 – Dec 2024

- Shipped an Azure-native Copilot for Power BI that turns natural-language questions into DAX/SQL using GPT-4o and meta-prompting; reduced cost per 1k queries by 65% vs Microsoft Fabric Copilot and contributed to closing a \$500k contract.
- Launched a LangGraph-based real-time supply-chain agent connected to package-tracking APIs and internal tools, improving incident detection and reducing downtime by 22% across 25 customers.
- Delivered 5+ LLM-powered PoCs in 2–3 day sprints for enterprise clients including Pfizer, GE Vernova, and Duke University, validating AI product ideas with real stakeholders.

Yavendio (Startup)

Lima, Peru

Senior AI Engineer

Feb 2024 – Apr 2024

- Shipped a multi-agent vendor platform on Azure (Python, FastAPI, GPT-4o, LangGraph) for procurement, negotiation, and quoting, taking the product from concept to production in 4 weeks; this MVP became the foundation for raising \$900k in venture funding.
- Designed and implemented multimodal agentic RAG across catalogs, specs, and invoices (text + images) using hybrid retrieval (BM25 + pgvector), metadata filters, and cross-encoder reranking; embedding versioning and warm caches cut p95 latency by 70%.
- Delivered secure NL-to-SQL workflows that allowed non-technical users to generate analytics over production data while preserving governance, permissions, and auditability.

Tuxpas

Lima, Peru

Software Engineer

Aug 2023 – Feb 2024

- Built and shipped an AWS-based data lake processing 1M+ medical records using Python ETL on S3, Glue, and Lambda orchestrated via EventBridge + Step Functions, with infra defined in AWS CDK, enabling new analytics products for clinicians and reducing cloud OPEX by 40%.

BBVA

Lima, Peru

Software Analyst

Jan 2023 – Apr 2023

- Mapped and documented 15+ core financial processes at BBVA (business process diagrams and data flows), providing the foundation for later automation and efficiency improvements by engineering teams.

Business Execution & Transformation Intern

Mar 2021 – Dic 2022

- Shipped 30+ features for internal finance tools using C, AutoHotkey, and JavaScript, translating manual system workflows into automated scripts used by 100 employees and finance staff, improving audit efficiency by 40%.

Research & Teaching

AI-PUCP (AI Research Group, Pontifical Catholic University of Peru)

Lima, Peru

Research Assistant

Jan 2025 – Jul 2025

- Explored Reinforcement Learning, Causal ML, and small language models through a series of research notebooks and experiments, focusing on practical applications and reproducible pipelines.
- Implemented and evaluated prototype models on curated datasets, documenting results and limitations to inform future lab projects and thesis directions.

Pontifical Catholic University of Peru

Lima, Peru

Teaching Assistant — Advanced C++ Development

Feb 2024 – Apr 2024

- Supported a 50+ student course on Advanced C++ (data structures, algorithms, and modern C++ practices), resolving technical questions during labs and office hours.
- Reviewed assignments and projects, providing feedback on code quality, performance, and problem-solving approaches.

Language Proficiency

Spanish: Native
English: Professional Proficiency (C1)
French: Basic (B1)

Technical Skills

Languages: Python, Typescript, C, C++
Developer Tools: Linux, Docker, AWS, Azure, Cursor, Claude Code
Technologies/Frameworks: FastAPI, Next.js, React.js, Langchain, Langgraph, Dspy, Pytorch, vLLM
Databases: SQL, MongoDB, Redis, Qdrant, Pinecone, Neo4j