

Valentina Cano Arcay

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Work Experience

Innolt

AI Engineer, AstraZeneca Rare Disease

Barcelona, Spain. March 2025–present

- Implemented hybrid search in OpenSearch (BM25, KNN, and neural sparse embeddings), improving retrieval for rare disease knowledge bases; built evaluation framework for benchmarking and validation
- Built MCP servers and tools from diverse data sources and engineered agent prompting to enable real-time clinical trial feasibility analysis with reliable streaming and output formatting
- Refactored platform using Domain-Driven Design, enhanced ETL features, standardized SQL/NoSQL connections, and optimized AI prompts to improve stability, testability, and performance

eSource Capital

Software Engineer, GCP AI Solutions

Caracas, Venezuela. October 2023–February 2025

- Designed and deployed AI-powered cloud-native applications using Flask, FastAPI, and GCP microservices architecture, serving banking, legal, and pharmaceutical clients
- Engineered a Python-based credit memo processing system leveraging Gemini LLM for multi-modal data extraction, reducing manual handling time from hours to minutes
- Built intelligent HR chatbots with custom REST APIs and webhooks for dynamic knowledge base integration

The Walt Disney Company

Data Analyst, Disney+ EMEA Content

London, UK. September 2021–August 2023

- Automated data pipelines integrating finance and product datasets using Databricks, Snowflake SQL, and Google Sheets, reducing weekly analysis time by 10+ hours
- Developed robust Python framework for projection estimation and predictive modeling of marketing performance, delivering accurate forecasts for content marketing decisions

Associate Data Analyst, Disney+ Product Personalization

New York City, USA. January 2020–August 2021

- Built and maintained A/B testing frameworks in Python and automated KPI monitoring in Looker to evaluate ML-powered recommendation engines' impact on user engagement
- Translated complex machine learning algorithms into actionable insight reports for non-technical stakeholders

Meta

Data Science Intern, Facebook Groups

Seattle, USA. May–August 2018

- Evaluated A/B test results comparing machine learning-driven and organic invite methods, and different UI design strategies in Groups invites, using SQL queries and data visualizations

Data Science Intern, Facebook Growth

Menlo Park, USA. June–August 2016

- 1 of 10 participants in 1st class of FBU Analytics; assessed GDPR's impact on user engagement and growth

Education

Georgia Institute of Technology

August 2024–present

Master of Science in Computer Science (online, part-time)

4.0/4.0 GPA

- *Courses:* Software Development Process, Video Game Design, Computer Networks, Health Informatics
- *Key projects:* JobCompare Android app, Circe 3D Video Game, SDN Firewall, MedPreg Checker web app

Brown University

Providence, USA. December 2019

Bachelor's in Computer Science & International Development Studies

4.0/4.0 GPA

- *Courses:* Computer Systems, Algorithms & Data Structures, Discrete Structures & Probability, Linear Algebra, UI
- *Research Assistant,* Human Computer Interaction Lab, January–June 2018
- *Teaching Assistant,* Introduction to Object-Oriented Programming in Java, August–December 2015

Skills

- **Programming Languages:** Python, Java, SQL, C#, HTML/CSS
- **AI/ML:** LLMs (Gemini, OpenAI, Anthropic), FastMCP, Dspy, Agno, Pydantic, scikit-learn, numpy, pandas
- **Cloud & Data:** AWS, GCP (Vertex, Dialogflow, BigQuery), Docker, OpenSearch (NoSQL), Snowflake, Databricks
- **Tools & Platforms:** Git/GitHub, Looker, Android Studio, Unity, REST APIs, Agile/Scrum methodology
- **Languages:** Spanish (native), English (native), Portuguese (beginner)