

Valentina Cano Arcay

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Work Experience

Innolt

AI Engineer, AstraZeneca Rare Disease

Barcelona, Spain. March 2025–present

- Implemented hybrid search infrastructure using OpenSearch, BM25, KNN, and neural embeddings, significantly improving medical document retrieval accuracy for rare disease applications
- Developed custom MCP database integration tools and engineered specialized prompting within multi-agent AI ecosystem, enabling real-time clinical trial feasibility analysis
- Enhanced core agent platform stability through ETL pipeline optimization, database connection management, and Agno framework integration, validated through EDA and tool benchmarking

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 Python-based document processing system leveraging Gemini LLM for multi-modal data extraction, reducing processing 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
- *Key projects:* JobCompare Android app, Circe 3D Video Game, SDN Firewall implementation

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, 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)