

# Valentina Cano Arcay

vcanoarcay@gmail.com, +34.659.145.775, linkedin.com/in/valentinacano, canovalentina.com

## Work Experience

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### 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

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### 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

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- **Programming Languages:** Python, Java, SQL, C#, HTML/CSS
- **AI/ML:** LLMs (Gemini, OpenAI, Anthropic), FastMCP, Dspy, scikit-learn, numpy, pandas, Pydantic
- **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)