Valentina Cano Arcay

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

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
- Improved agent platform stability by adding ETL features, managing SQL/NoSQL database connections, and optimizing AI prompts for enhanced model performance, validated through EDA and 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 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
- *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, 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)