

Jill Palma Garro

Analytics & Data Engineer

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SUMMARY

Computer Scientist building resilient, production-ready **data pipelines** to bridge reliable infrastructure and actionable **business intelligence**. I treat data architecture as a versioned, tested software product, ensuring stakeholders make decisions based on **absolute data integrity**.

SKILLS

Hard Skills: Advanced SQL · Python · Snowflake · dbt Core · Apache Airflow · AWS · Docker · Power BI

Soft Skills: Data Modeling · Pipeline Optimization · Stakeholder Management · Agile Methodologies

Languages: Spanish (Native) · Catalan (Native) · English (Upper-Intermediate/B2)

WORK EXPERIENCE

SDG Group

Data Solutions Analyst

Barcelona, Spain

Nov 2024 – May 2025

- Engineered robust **Python automation scripts** (pandas, requests) to replace legacy manual extraction workflows, ensuring reliable **data ingestion** into the core analytical layer.
- Refactored and optimized complex **Snowflake SQL** transformation logic within distributed ETL pipelines, reducing latency and stabilizing data feeds for **Power BI** and operational monitoring systems.
- Orchestrated multi-source data integrations by designing robust dimensional **data models**, guaranteeing absolute data consistency and reporting accuracy for 10+ business stakeholders.

Penguin Random House

Barcelona, Spain

Data Scientist Intern

Jan 2024 – May 2024

- Developed and deployed scalable **Python data processing** scripts within **AWS environments** (S3, EC2) to parse, clean, and comprehensively validate ingestion of **500k+ records**.
- Designed and implemented rigorous **SQL data quality checks** in **Snowflake** to proactively detect anomalies, preventing corrupted data from degrading downstream predictive machine learning models.
- Engineered the foundational **data pipeline** and cloud infrastructure to support an internal **image search** tool, significantly improving query reliability and search performance for global editorial teams.

ENGINEERING PROJECTS

Modern Commerce Data Engine | dbt Core, Snowflake, Advanced SQL, Python, Power BI

- Architected a **Star Schema** in **Snowflake** using **dbt Core** to transform raw logs into business-ready tables.
- Developed complex sessionization logic using **Advanced SQL** (CTEs, Window Functions) for user journeys.
- Connected the semantic layer to **Power BI** to expose retention models to end stakeholders.

SaaS Unit Economics Pipeline | Docker, PostgreSQL, Python, SQL, DAX, Power BI

- Deployed **PostgreSQL** via **Docker** and built a **Python pipeline** to ingest transactional SaaS data.
- Implemented cohort analysis using **Advanced SQL** to calculate **Unit Economics** (MRR, LTV, Churn).
- Developed data models and Time Intelligence metrics using **DAX** in **Power BI**.

Automated Data Observability Pipeline | Apache Airflow, dbt, SQL, Python

- Orchestrated **data ingestion** pipelines using **Apache Airflow** for 50k+ historical transactional records.
- Designed a data validation suite using **dbt** with targeted anomaly simulations to stress-test robustness.
- Automated the isolation of corrupted records prior to ingestion, safeguarding downstream reporting.

EDUCATION

Universitat Politècnica de Catalunya

Barcelona, Spain

Postgraduate in Artificial Intelligence with Deep Learning

Exp. 2026

Universitat Autònoma de Barcelona

Barcelona, Spain

Bachelor's Degree in Computer Science

2025