

# Jill Palma Garro

## Analytics & Data Engineer

🌐 Portfolio | ✉️ [jpalmagarro@gmail.com](mailto:jpalmagarro@gmail.com) | 📞 +34 634 609 089 | 🔗 LinkedIn

### 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

Barcelona, Spain

Data Solutions Analyst

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