JUAN PARDO LAVADO

https://juanpardo-portfolio.vercel.app

SUMMARY

Data Engineer with a strong Software Engineering background , specialized in designing and building event-driven data pipelines, scalable ETL/ELT processes, and relational data architectures. Leveraging deep expertise in Python and SQL, alongside asynchronous processing (Celery, RabbitMQ) , I focus on guaranteeing fault-tolerant data ingestion and transformation. I bring an engineering-first mindset to the data ecosystem to ensure data quality, observability, and robust CI/CD practices across high-performance distributed systems

WORK EXPERIENCE

Data & Backend Engineer · Hermes Security Solutions (Cybersecurity SaaS, PTA Málaga) | April 2024 – February 2026

- Designed and implemented event-driven data ingestion pipelines using Python and RabbitMQ, processing and persisting structured data from multiple sources into PostgreSQL with guaranteed delivery and fault tolerance.
- Developed scalable data processing workflows and transformation logic (ETL), ensuring secure data access (RBAC) and high availability across distributed systems.
- Architected and optimized relational data models in PostgreSQL, writing complex SQL queries and leveraging ORMs (Django/SQLAlchemy) to ensure strict data governance, integrity, and query performance.
- Configured CI/CD pipelines using GitHub Actions for automated testing (e.g., pytest) of data workflows, ensuring data quality and reliable deployments.
- Implemented comprehensive data observability and pipeline monitoring using Prometheus and Grafana, tracking data flow metrics to ensure zero-downtime and rapid incident response.

OWN PROJECTS

Async CSV Importer (Data Pipeline: FastAPI, RabbitMQ, Python) | github.com/juangorz/async-csv-importer

- Developed a decoupled data ingestion pipeline designed to extract, transform, and load (ETL) massive CSV datasets (+500k records) into the database.
- Utilized message brokers to isolate the data processing tasks, ensuring high availability and real-time monitoring of the ETL flow without blocking the main server thread.

Bank Honeypot Dashboard (Data Collection & Streaming) | github.com/juangorz/bank-honeypot

- Proactive security tool that continuously collects, structures, and logs high volumes of unauthorized access data to generate real-time security intelligence and dashboards.

Notification Service (RabbitMQ, PostgreSQL) | github.com/juangorz/notification-service

- Event-driven architecture focused on data persistence and asynchronous message consumption, demonstrating a solid understanding of distributed systems and data consistency.

Tickly (Go, Svelte, MySQL)

- Engineered the backend architecture and relational database schema for a role-based system, managing secure data access and session management.

ADDITIONAL INFORMATION

- **Core Skills:** Data Engineering, ETL / ELT Pipelines, Data Modeling, Query Optimization, Distributed Systems, Data Observability, Scripting.
- **Programming:** Python, SQL, Go, Java, JS.
- **Databases:** PostgreSQL, MySQL, MongoDB.
- **Data Ecosystem & Tools:** RabbitMQ, Celery, Redis, Docker, Git, GitHub Actions, AWS (S3, EC2 fundamentals), Prometheus, Grafana.
- **Languages:** Spanish (Native), English (Professional Working Proficiency).