

Alejandro Quílez Asensio

Senior Data Engineer

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PERFIL PROFESIONAL

Senior Data Engineer with 4+ years of experience designing, building, and maintaining scalable data platforms in cloud environments. Strong background in data modeling (facts and dimensions), data quality, and automation. Specialized in Azure Databricks, PySpark, and CI/CD-driven data pipelines. Proven ability to design and evolve production-ready systems, bridging data engineering and software architecture in regulated industries such as insurance.

EXPERIENCIA LABORAL

- **Senior Data Engineer / Software Engineer — Knowmad mood** Enero 2025 - Presente
 - Led the refactor of a core decisioning engine into a clean, testable Python codebase, applying async and event-driven architecture principles to process 500+ concurrent lending applications in seconds under production workloads.
 - Took ownership of the system architecture, including testing strategy, observability (logging and metrics), and deployment infrastructure.
 - Designed and implemented CI/CD pipelines, containerization, and environment configuration to reliably deploy and operate the solution in production.
 - Defined extensible architectural patterns and interfaces to support future business rules while minimizing regression risk.
- **Senior Data Engineer — Knowmad mood** Abril 2023 - Diciembre 2024
 - Designed and maintained fact and dimension tables supporting analytical and reporting use cases.
 - Built and optimized large-scale PySpark pipelines running on Azure Databricks.
 - Implemented CI/CD pipelines for data workflows, improving reliability and deployment speed.
 - Led data quality initiatives, introducing automated checks and monitoring mechanisms.
 - Collaborated with business and analytics teams in the insurance sector to deliver scalable data solutions.
- **Machine Learning Engineer / Data Engineer — Capgemini** Febrero 2021 - Abril 2023
 - Worked on enterprise-grade data science platforms combining ML and data engineering.
 - Designed and maintained data pipelines handling large data volumes in cloud environments.
 - Implemented CI/CD processes for ML and data workflows.
 - Acted as technical reference and mentor for junior engineers.
- **Innovation Engineer — Capgemini** Octubre 2020 - Febrero 2021
 - Designed backend architectures for rapid service prototyping on Google Cloud Platform.
 - Developed APIs and integrations to automate data access and internal workflows.

EDUCACIÓN

- **BSc in Telematics Engineering — Telematics Engineering** Enero 2016 - Enero 2021
University of Valencia Valencia, Spain

HABILIDADES

PROGRAMMING & QUERYING

Python PySpark SQL Bash

DATA ENGINEERING

ETL / ELT Pipelines
Dimensional Modeling (Facts & Dimensions)
Data Quality & Validation
Big Data Processing Apache Spark
Hive

CLOUD & PLATFORMS

Azure Azure Databricks
Azure Data Lake Azure Entra ID
Azure Graph API
Cost Control & Optimization

MACHINE LEARNING & ANALYTICS

MLflow Azure Machine Learning
Model Monitoring Basics

DEVOPS & AUTOMATION

Git Azure DevOps GitLab CI/CD
Docker Infrastructure Automation