

RAÚL BARRANTES PAMPILLO

SENIOR DATA ENGINEER | DATABRICKS | AZURE | DATA PLATFORMS

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Senior Data Engineer with 6+ years of Data Engineering experience and 8+ years across data, automation and software engineering. Experienced building and modernising enterprise data platforms with Databricks, PySpark, Python, SQL, Spark and Azure across agriculture, banking, energy, retail and pharmaceutical environments. Strong background in production ETL/ELT pipelines, cloud migration, analytical data modelling and translating business requirements into reliable, scalable data solutions.

CORE SKILLS

Languages & Processing	Python, SQL, PySpark, Scala, Spark	Platforms	Databricks, Azure, Azure Synapse, Snowflake, Hadoop, Fabric
Data Engineering	ETL/ELT, production pipelines, data ingestion, cloud migration	Data Modelling	Dimensional modelling, star schema, analytical data models
Orchestration & DevOps	Apache Airflow, Control-M, Jenkins, Git, Jira	Data & Analytics	Power BI, SQL Server, Oracle, DB2, Hive, Impala, HDFS

PROFESSIONAL EXPERIENCE

Kynetec — Senior Data Engineer | Sep 2023 – Jul 2026

- Built and maintained 15+ production data pipelines, reducing failures by 30% and improving the reliability of analytics and reporting datasets.
- Worked on a large cross-functional data project, coordinating ingestion of high-volume data from multiple sources and developing efficient ETL processes while supporting long-term platform development and production operations.
- Designed and optimised SQL Server and Python data processes supporting analytical workloads in the agriculture sector.
- Contributed to SQL Server-to-Databricks migration by translating SQL processing logic into scalable PySpark pipelines.
- Delivered day-to-day work across data ingestion, troubleshooting and stakeholder requirements; resolved 50+ technical requests per month while maintaining platform consistency and data quality.
- Mentored and onboarded engineers on SQL, Python, data engineering processes and project workflows.

Accenture — Data Engineer | May 2021 – Aug 2023

- Designed scalable ETL and orchestration workflows with Python, Scala and Apache Airflow, integrating Oracle data across 5+ banking business units.
- Built an analytics platform for the energy sector using Azure Synapse, Power BI, Hive and SQL; migrated DAX-based transformation logic into PySpark pipelines.
- Led migration of enterprise data engineering workloads from Cloudera 6.3.4 to 7.1.7, ensuring platform stability and continuity.
- Developed and maintained large-scale Hadoop/Spark pipelines across retail and pharmaceutical projects using SQL, Scala, Java, Hive, Impala, HDFS, Control-M and Jenkins.

DXC Spain — Data Engineer | Aug 2020 – May 2021

- Designed and implemented scalable Spark Core/SQL and Sqoop ingestion pipelines, centralising high-volume DB2 and Oracle Exadata transactional data into HDFS/Hive/Impala and standardising codebase environments for downstream Data Science workloads.
- Optimised distributed query performance and storage reliability using broadcast map-side joins, strategic repartitioning to eliminate small files, and Parquet with Snappy compression for final datasets.
- Engineered incremental-load and polling frameworks with custom Java utilities and Oozie, supporting appends, audit-column delta tracking, and logical/physical deletions through anti-join logic while preventing duplicate target loads.
- Spearheaded migration of on-premises Hadoop workloads to Azure Databricks and Snowflake, standardising metadata parameters and data-lake path mappings and redesigning time-critical decoupled pipelines to reduce source-system load during peak windows.
- Strengthened data governance, quality and security with Python-driven YAML/JSON configurations for automated sensitive-field masking and source-to-target row-count validation.

Lionbridge — Senior Automation Engineer | Mar 2017 – Aug 2019

- Developed Python, VBA and regular-expression automation solutions and performed QA across HTML, XML and JSON data, improving process efficiency and accuracy.

EDUCATION & CERTIFICATIONS

Universidade de Santiago de Compostela — Master Degree in Massive Data Analysis (2019–2021)

Tecnológico de Costa Rica — Bachelor of Computer Science (2012–2016)

Microsoft Azure Data Engineer Associate — DP-203 (2023)

Scrum Manager — Kanban and Lean for Agile Management of TIC Projects (2025)

LANGUAGES, ACHIEVEMENT & LEADERSHIP

Languages: English C1 · Spanish Native · Galician B2

Achievement: FDS Spain — Most Innovative Initiative Award, IV Hackathon Big Data & Analytics (2020)

AJERGA — President (2020–2025): Led a non-profit organisation supporting 200+ members and 30 volunteers through workshops, mentorship programmes and community initiatives.