

Tiago Reis

DATA ENGINEER II · DATA PLATFORMS · CLOUD · AI

Portugal · Remote-first
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PROFILE

Data Engineer II with an engineering career spanning manufacturing, applied analytics and production data platforms. Experienced across legacy Microsoft estates and modern Azure lakehouse systems, with a practical focus on reliable pipelines, data quality, observability, migration and operational ownership. Mechanical Engineering foundations bring an uncommon systems perspective to industrial, energy and supply-chain data problems.

CORE CAPABILITY MAP

INGESTION	TRANSFORMATION	PLATFORM & DATAOPS
Azure Data Factory · SSIS · Airflow · Kafka · Airbyte	Spark · PySpark · Scala · Python · advanced T-SQL	Databricks · Delta Lake · Azure DevOps · Docker · CI/CD
STORAGE & MODELLING	ANALYTICS	AI & ML
SQL Server · Snowflake · PostgreSQL · S3 · dimensional modelling	SSAS · Power BI · data quality · observability	Scikit-learn · PyTorch · TensorFlow · evaluation

EXPERIENCE

Data Engineer II Bosch Portugal

DEC 2025 - PRESENT
Lisbon · Remote

Build and operate supply-chain analytics across a SAP-sourced Microsoft data estate serving planning and logistics stakeholders.

- Maintain production T-SQL procedures, SSIS packages and SQL Server Agent workflows across warehouse and datamart layers.
- Diagnosed an SSAS snapshot-cube duplication defect and recurring processing timeouts, restoring downstream reporting integrity.
- Designed preventive data-quality checks and corrected purchase-order ingestion logic to close recurring reconciliation gaps.

Data Engineer · Lead DE, legacy platform
Nordex Group

DEC 2023 - DEC 2025
Porto · Hybrid

Led migration work from a legacy platform toward a modern Azure stack while delivering governed lakehouse data products.

- Built Databricks pipelines in Scala, Python and SQL for operational wind-energy data and delivered Delta Silver/Gold layers.
- Improved SQL and pipeline performance by up to 22%, reducing reporting latency for the measured workload.
- Implemented schema controls, CI/CD, code review, testing, monitoring and production incident response with Azure DevOps.

Data / Machine Learning Engineer
Independent

SEP 2022 - NOV 2023
Remote

Delivered self-directed data and ML work while completing a postgraduate transition into data engineering.

- Contributed fixes to Ivy, the open-source unified machine-learning framework.
- Built end-to-end data, analytics and ML workflows using Python and production-oriented engineering practices.

Manufacturing Engineer
Yazaki Portugal · SIMAN

2018 - 2023
Portugal · Global projects

Designed and industrialized physical systems across automotive and industrial environments before moving from machines to data.

- Developed an applied linear-regression model for injection-tool cost estimation, replacing a manual estimation workflow.
- Coordinated industrialization and project delivery with stakeholders across Europe, the Americas and Asia.
- Applied root-cause analysis, process optimization and continuous-improvement methods in production settings.

SELECTED WORK

ClinDataGate	Airflow + Snowflake	Production Django platform
Evaluation-first clinical-dataset enhancement research POC with provenance, abstention and fail-closed promotion gates. TRL 3; public-proxy evidence only.	Public end-to-end renewable-energy BI pipeline with explicit orchestration, dependencies and warehouse transformations.	Designed, built and maintained a production web platform, supported by a private containerized infrastructure lab.

EDUCATION

Postgraduate Degree - Big Data & Decision Making
ISEP · 2024 · Final grade 18/20

MSc Mechanical Engineering
ISEP · Industrial Management & Linear Optimization · 2019

Advanced Programming with Python
DUAL · Professional qualification · 2023

CERTIFICATIONS

Databricks Certified Data Engineer Associate
Microsoft Azure Data Fundamentals · DP-900
Microsoft Azure Fundamentals · AZ-900
Machine Learning Specialization · DeepLearning.AI / Stanford
Cambridge First Certificate in English · B2