

ALONSO MARCOS MUÑOZ

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PROFESSIONAL PROFILE

Data Engineer focused on reliable pipelines, data modelling, data quality and operable platforms. At Tragsatec, I work with Python/SQL ETL, PostgreSQL/Oracle, APIs, Docker/Podman, Git and multi-environment operations. My completed MSc in Big Data and Cloud Computing adds applied projects with Spark/PySpark, Databricks Lakehouse, Delta Lake, Kafka, Airflow, streaming and Terraform.

PROFESSIONAL EXPERIENCE

Tragsatec | Data Engineer

Albacete, Spain | Jun. 2025 - Present

- Design and evolve Python/SQL metadata ETL pipelines: normalization, transformations, API publication, RDF/JSON-LD serialization and SHACL/pySHACL validation.
- Model and optimize PostgreSQL/Oracle transformations, aggregations and views. Troubleshoot issues across data, mappings, serialization, code, configuration and infrastructure.
- Support Java/Spring data products and GitLab CI/CD delivery with Docker/Podman, Git, SSH and test/dev/pre-production/production environments. Document operations and mentor junior/intern colleagues.

La Fábrica del Tiempo | Junior Automation Consultant (Internship)

Almansa, Spain | Feb. 2024 - Aug. 2024

Implemented Power Apps/Power Automate workflows on Microsoft 365 and SharePoint for CRM, synchronization, notifications and approvals, with above 25% operational efficiency gains.

City Council of Alcázar de San Juan | IT Technician (Internship)

Alcázar de San Juan, Spain | Mar. 2019 - Jun. 2019

IT support, networks, documentation and user assistance in a public administration.

SELECTED APPLIED PROJECTS

- **Databricks Lakehouse - Telco Churn:** PySpark, Auto Loader, Delta Lake, Medallion architecture, Databricks Jobs, Unity Catalog and MLflow: <https://github.com/AlonsoMarcosM/databricks-telco-churn-lakehouse>
- **Big Data batch + streaming catalogue:** Spark/PySpark, Spark SQL, Airflow, Kafka, SQL Server, MinIO and Delta Lake with incremental ingestion and window aggregations: <https://github.com/AlonsoMarcosM/spark-kafka-airflow-data-platform>
- **AWS + Terraform honeypot:** applied IaC with EC2, S3, Lambda, SNS, CloudWatch, SSM and IAM: <https://github.com/AlonsoMarcosM/DAMN-TEAMSSN>

EDUCATION

UCLM - Master's Degree in Big Data and Cloud Computing

Sep. 2025 - Jun. 2026

UCLM - Bachelor's Degree in Computer Engineering, Information Technology

Sep. 2019 - Jun. 2025

IES Juan Bosco - Advanced Vocational Diploma in Network Systems Administration

Sep. 2017 - Jun. 2019

CERTIFICATIONS

CAPM - Project Management Institute **First Certificate in English (B2) - Cambridge English**

TECHNICAL SKILLS

Data Engineering: Python, SQL, ETL, data modelling, PostgreSQL, Oracle, REST APIs, data quality, troubleshooting and traceability.

Big Data applied: PySpark, Apache Spark, Spark SQL, Databricks, Data Lake/Lakehouse, Delta Lake, Medallion architecture, Kafka, streaming and Airflow.

Cloud, IaC and delivery: Terraform, AWS, Docker, Docker Compose, Podman, Git, GitLab CI/CD, Linux, SSH, Kubernetes and Helm.

Data governance and AI: CKAN, DCAT-AP-ES, RDF, JSON-LD, SHACL, OpenMetadata, AI harness engineering and agentic workflows.

Languages: native Spanish. English B2 (Cambridge First).