



Sergio Ballesteros

Software Developer

Software developer building production systems across microservices, data workflows and AI integrations in the energy sector.

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Madrid, Spain

Core Focus

Java · Spring Boot · AWS · Kubernetes · AI Integration · Data Engineering · Automation

Experience

VDenergy · Software Developer

Mar 2023 - Present · Madrid, Spain

Build and operate backend services, automation workflows and AI integrations used in commercial and operational processes.

- Built and evolved Java microservices with Spring Boot for long-lived internal systems.
- Designed REST APIs for platforms used in pricing, scoring and operational workflows.
- Processed large datasets with Python and SQL, including cleanup and staged ETL logic.
- Integrated OpenAI and Anthropic into business workflows with validation and service boundaries.
- Deployed and operated services on AWS, Docker and Kubernetes.
- Automated internal processes, reducing analysis time by up to 80% in target workflows.

Selected Systems

OCM Brain

AI Platform

Service-backed AI layer for lead scoring, consent freshness checks and sales-facing insight generation.

Energy Simulator

Internal Platform

Shared simulation backend for pricing scenarios, tariff comparisons and reusable commercial analysis.

Smart OCR

AI Automation

OCR + LLM extraction pipeline with structured validation and more than 98% accuracy on the target workflow.

Data Processing

Data Engineering

High-volume import, cleanup and ETL workflows with more than 900,000 records processed.

Technology

Java, Spring Boot, Python, FastAPI, AWS, Docker, Kubernetes, PostgreSQL, Redis, MySQL, SQL, OpenAI, Anthropic, OCR, Pydantic, Next.js, TypeScript

Public Repositories

smart-document-extractor, async-task-dashboard, vertx-hexagonal-template.