

JAVIER CASTILLA MORENO

Backend Engineer specialized in distributed systems, multi-tenant SaaS and observability

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PROFILE

Backend engineer with a degree in Computer Engineering, specialized in stateful backend systems: consumption-based billing, event sourcing, and observability for multi-tenant SaaS platforms. At Workfactory I design and operate the product's billing engine in production; at AIDA I built a system that processed data across 300+ tenants in production with zero incidents. Comfortable across the full lifecycle of a service: design, Kubernetes deployment, and also the less glamorous part: debugging and responding when something breaks, including real on-call duty with automated calls in the middle of the night.

EXPERIENCE

Workfactory

Jun 2026 - present

Backend Engineer

- Designed the product's core systems: **multi-tenant, consumption-based billing** with event sourcing, the **guest check-in flow** integrated with SES-Hospedajes, the **Worki** task-assignment engine, and a **booking system** with multichannel automated reminders.
- Reused the event sourcing engine from my thesis (**Spool Framework**) to build Workfactory's **analytics** system, with views on cleaning quality, customer satisfaction, and response times.
- Built end-to-end observability with **Grafana and Langfuse**: Slack alerts and, for the on-call team, automated voice calls (TTS) via **Telnyx** as part of a real **on-call rotation**.
- Cut hosting costs by **83% (from €100 to €17/month)** by migrating from Railway to a self-managed VPS, dockerized the entire local dev environment with **Infisical** for environment variables, and designed **envctl**, an internal CLI to shut that environment down on a schedule.
- Refactored critical parts of the system and led, applying SOLID principles, the decoupling fix for the **voice module in Go**, reducing the production incident rate.
- Mentor the rest of the team, helping evaluate **complexity vs. payoff trade-offs** in day-to-day technical decisions.

AIDA (Aplicaciones Informáticas Domingo Alonso)

Feb 2026 - May 2026

Backend Development Intern

Las Palmas de Gran Canaria · Cross-Cutting Team

- Co-developed **Data Collector**, a three-module system (Web, API, Agent) that collected data across **300+ client tenants in production, with zero incidents**. Scrum/XP team of 5 (2 interns), two-week sprints.
- Coordinated with the Platform team and with each **tenant's product owners**, our direct stakeholders, to align technical requirements and deployment priorities.
- Built the installable remote agent with access to the client's local databases, with periodic polling and on-demand query execution; **chunked** result transfers to avoid overloading client systems.
- Used **Azure Blob Storage** for persistence, with a web visualization dashboard and authentication via Microsoft Entra ID; instrumented the stack with OpenTelemetry for tracing and Tinybird for event auditing.
- Wrote the **Dockerfiles** and CI/CD pipelines (GitHub Actions and Azure DevOps) that deployed to Kubernetes through an existing internal Helm-based deployment tool.
- Practiced **TDD, pair programming, and refactoring** under the team's guidance, leaning on GitHub Copilot and Gemini.

Technologies: .NET, REST APIs, Angular, Docker, Kubernetes, Azure, OpenTelemetry, GitHub Actions, Azure DevOps.

SKILLS

Languages: Go, Java, TypeScript, Python, JavaScript, C#, SQL, Bash

Backend & Architecture: Spring Boot, Node.js/Express, Microservices, Hexagonal Architecture, Domain-Driven Design, Event Sourcing, SOLID

Cloud, Infrastructure & Data: AWS, Azure, Kubernetes, Docker, Infisical, MySQL, PostgreSQL, Kafka, Amazon SQS/SNS

Observability, Testing & CI/CD: Grafana, OpenTelemetry, Langfuse, JUnit, Mockito, Testcontainers, GitHub Actions, Azure DevOps

AI-Assisted Development: TDD, Pair Programming, Scrum/XP, Claude Code, GitHub Copilot, Gemini

Spoken Languages: Spanish (native), English (B2)

EDUCATION

Universidad de Las Palmas de Gran Canaria Sept 2026 - 2027 (ongoing)
Master's in Intelligent Systems and Numerical Applications in Engineering

Universidad de Las Palmas de Gran Canaria 2022 - 2026
Bachelor's in Computer Engineering

- Relevant coursework: Software Engineering, Virtualization and Distributed Processing, Web and Mobile Development, Cloud Computing, Operating Systems Fundamentals.
- All courses completed with highest honors.

I.E.S. Casas Nuevas 2020 - 2022
Baccalaureate, Science and Technology track
GPA: 9.3/10

- Additional training: **Hexagonal Architecture with Spring and Angular** masterclass, delivered by INETEL.

PROJECTS

Spool Framework · Highest Honors Feb 2026 - Jun 2026
Bachelor's Thesis | github.com/Spool-FRAMEWORK

Extensible, plugin-based (Service Provider Interface) Java framework for data pipelines: multi-source ingestion (financial APIs, crypto exchanges, SEC and BOE), a YAML DSL for configuring data flows, and deployment on Kubernetes and AWS with full observability and distributed traceability via event sourcing.

Hospital Event Processing Pipeline Jan 2026 · solo project, ~1 week
github.com/javcastilla/Hospital-Event-Processing-Pipeline

Java application for ingesting and processing hospital events, built with hexagonal architecture and SOLID principles, cutting cloud deployment costs by 97% versus managed AWS alternatives.

BookStore App Nov 2025 · 2-week project
github.com/javcastilla/CN-1

AWS-hosted bookstore with a decoupled Java codebase applying Domain-Driven Design, migrated to an AWS Lambda-compatible architecture in under an hour.