Carlos Castedo

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Profile

Software engineer and architect with a background in test automation and backend development. Experienced in designing scalable cloud-native systems, establishing DevOps and security standards, and leading multicultural engineering teams in the energy sector. Focused on efficiency, quality, and continuous improvement.

Technical Skills

Languages & Frameworks	Java, Spring Boot, Python
Cloud & Infrastructure	GCP (Cloud Run, Cloud SQL, Data Fusion), AWS (Lambda, S3, EKS), Docker, Terraform
CI/CD & Security	GitHub Actions, Jenkins, container image hardening
Data & Messaging	PostgreSQL, Kafka
Testing	Cypress, Cucumber, API black-box testing
Architecture	Microservices, CQRS, outbox pattern, serverless

Professional Experience

Iberdrola Innovation Middle East

Nov 2024 – Present

Software Architect *Feb 2025 – Present*

Technical lead for 4 concurrent software products, guiding a team of 6 developers.

- Designed a unified, scalable architecture across the 4 products, accelerating developer onboarding and code reuse.
- Built end-to-end CI/CD workflows from scratch, automating testing, builds, and deployment.
- Provisioned and managed cloud infrastructure as code, enabling reliable, reproducible deployments.
- Standardized security protocols and container image hardening, securing product certification by an external cybersecurity auditing firm.

Key skills: Java, Spring Boot, Python, Docker, GCP (Cloud Run, Cloud SQL), PostgreSQL, GitHub Actions, Terraform

Team Lead *Feb 2025 – Nov 2025*

Led an 11-person multicultural team of software, data, and power systems engineers across 9 concurrent R&D projects.

- Served as primary liaison for Iberdrola, owning stakeholder communication, scope definition, and milestone delivery.
- Directed resource allocation and timelines across the 9 projects.
- Bridged power systems engineering with software and data science to drive technical execution and research outcomes.

Key skills: Team leadership, stakeholder management, project planning, cross-functional collaboration

Senior Software Engineer *Nov 2024 – Feb 2025*

Improved ways of working and developer experience across several projects.

- Refactored internal tooling, reducing technical debt.
- Improved developer experience by applying clean patterns across projects.
- Set up the scaffold for new APIs.

Key skills: Refactoring, clean patterns, API scaffolding

Mymoid

Aug 2023 – Nov 2024

Backend Developer

Backend developer on a customer-facing payment gateway, covering a frontend and an API.

- Developed a large-scale payment order creation system.
- Applied the command and query pattern across existing and new microservices, and implemented the outbox pattern for data synchronization.
- Created a testing project covering both the frontend and the API.
- Delivered new features in a legacy codebase more than 7 years old.

Key skills: Microservices, CQRS, outbox pattern, API and frontend testing, legacy code

Vodafone

Aug 2021 – Aug 2023

Senior QA Automation Engineer

Built automated tests to validate quality across three projects.

- Validated new versions of the Data Fusion tool on Google Cloud Platform.
- Verified pipelines created by a team of data engineers.
- Validated an application used by internal Vodafone teams.

Key skills: Python, Cypress, Cucumber, GCP Data Fusion

ING Bank

Aug 2019 – Apr 2021

QA Automation Engineer

Test automation for a set of banking APIs.

- Created a test plan for the APIs.
- Implemented a black-box solution for each API, combining API requests with database and Kafka queries to verify requirements.
- Integrated the solution into a CI/CD pipeline using Jenkins.

Key skills: API testing, Kafka, Jenkins, CI/CD

Education

Ingeniero Electrónico Industrial y Automática *2011 – 2016*
Universidad de Valladolid (Industrial Electronics and Automation Engineering) · Thesis: "Estimación de la posición 3D de objetos deformables"

Master's in Robotics and Automation (incomplete, 75% of credits) *2017 – 2018*
Universidad Politécnica de Madrid

Languages

Spanish – Native · **English** – Very good command