MADRID · JAVA BACKEND · SOFTWARE ARCHITECTURE

DANIEL FERNÁNDEZ GUERRERO



I design and build backend systems with Java and Spring Boot. Since 2000 across Madrid, London, Cork and Alicante: from Telefónica R&D and the London 2012 Olympic Games systems to insurance, payments and exchange platforms.

https://www.linkedin.com/in/danifgx https://github.com/danifgxcom

Open to Java backend and agentic AI roles · remote in Europe or hybrid in Madrid

DEPARTURES

My own projects, on trial runs in my homelab · next stop: the cloud

DEPARTURES · DANIFGX.ORG

Próxima Estación

— The Madrid metro game, in Spanish.

Via · TypeScript · React · Leaflet · PostgreSQL · Platform · metromadrid.danifgx.org · Trial run

Propera Estació

— The Barcelona metro game, in Catalan.

Via · TypeScript · React · Leaflet · PostgreSQL · Platform · metrobarcelona.danifgx.org · Trial run

Next Station

— The London Tube game.

Via · TypeScript · React · Leaflet · PostgreSQL · Platform · londontube.danifgx.org · Trial run

Appoggeo

— Your appointments on a map, with an alert when you enter their radius. Web and Android.

Via · React · Capacitor · Express · MongoDB · Platform · appoggeo.danifgx.org · Trial run

Desafía al reflejo

— A cabinet of symmetry puzzles, with multiplayer. In Spanish.

Via · TypeScript · React · Socket.IO · Platform · desafiaalreflejo.danifgx.org · Trial run

Carkanoid

— Arkanoid-style space arcade: pilot the last reflector and bounce the laser back. In Spanish.

Via · Rust · WebAssembly · Platform · carkanoid.danifgx.org · In development

raecli2

— The Spanish Royal Academy dictionary in your terminal.

Via · Rust · Platform · github.com/danifgxcom · Source

Digital Evidence

— Custody, signing and certification of documents on Hyperledger Besu.

Via · Java · Spring Boot · OIDC · Blockchain · Platform · — · Proof of concept

FROM COMMIT TO PRODUCTION

My own Proxmox, the same discipline as at work

RENOVATE COMING SOON

Watches dependencies and CVEs and opens update PRs.

COMMIT

One issue and one PR per change, on Forgejo.

CI

Types, lint, tests, npm audit and gitleaks.

SONAR

Strict coverage quality gate.

NEXUS

Versioned artifact per commit.

DEPLOY

Webhook to the LXC container.

SMOKE

If it fails, automatic rollback.

CLOUDFLARE

Public HTTPS through a tunnel, no open ports.

One container per app

LXC on Proxmox, each with its own tunnel.

Merge = deploy

Protected branch: no green, no entry.

AI agents

Claude and others as teammates, with human review.

CAREER

Madrid · London · Cork · Alicante · University

Now

Own projects

MADRID Product, backend, infrastructure and agentic AI

I design, build and run my own applications end to end, with CI/CD and continuous deployment on my homelab. I code with agentic AI: Claude Code, Codex and Gemini in Antigravity, with agents that plan, implement and review every change.

2023 – 2024

Fortris

REMOTE Java Software Engineer

Java backend with Spring, MVC APIs and JWT security, fully remote.

2023

danifgx

MADRID Self-employed software engineer

Java 11, Angular, React, MongoDB, SQL Server and Docker.

2019 – 2020

MD Sistemas

MADRID IT Architect

Architecture for Ericsson MELA in financial reporting.

2018

IBM

LONDON IT Consultant

Agile consulting and technical documentation.

2018

Vocalink, a Mastercard company

LONDON Product Architect

Product architecture with international teams in payments infrastructure.

2015 – 2017

Hiscox

LONDON Solutions Architect

Solution architecture for insurance in the UK and Europe: vendor selection and audits, third-party integration and agile evangelism.

2014 – 2015

Xanadu Consultancy

CORK Technical Team Lead

Evolution of the Matchbook Exchange platform. Up to 3 teams and more than 10 people, from development to devops.

2013 – 2014

Unisys · EUIPO

ALICANTE Platform Architect

Enterprise Architecture team at the European Union Intellectual Property Office.

2012 – 2013

Crown Agents

LONDON Technical Architect

TRIPS: tax collection, customs and single window for Vietnam, the Dominican Republic, Mongolia and Cambodia.

2011 – 2012

Atos · London 2012

LONDON System Architect and IT Security Services Duty Manager

Architecture of the Core Games Systems for the Olympic and Paralympic Games, performance testing and technical duty management during the Games.

2007 – 2011

Atos Research & Innovation

MADRID Technical Project Manager

European Commission R&D projects: eLearning and inclusion (EU4ALL, GRAPPLE) and security (MASTER, PASSIVE, NESSoS).

2007

Atos · Vodafone

MADRID JEE Developer

The first SOAP web services of Vodafone's CRM.

2005 – 2007

Avalon Tecnologías de la Información

MADRID Lead Application Developer

Applications for researchers and public/private funding at the Spanish Ministry of Education and Science.

2005 – 2011

UNED

BRANCH LINE Part-time J2EE teacher and tutor

Fifth-year subject in the Computer Languages Department: UML design and J2EE web applications built on core design patterns.

2003 – 2005

Telefónica International Wholesale

MADRID Business Intelligence Specialist

Reporting system for Telefónica's international data lines, with Business Objects on Oracle.

2000 – 2003

Telefónica R&D

MADRID Engineering intern

First stop on the career line.

1997 – 2003

Universidad Politécnica de Madrid

TERMINUS MSc Computer Engineering

Where the line begins.

VALID TICKETS

Certifications · tap to verify

ORACLE · JUN 2025

Oracle Certified Professional: Java SE 17 Developer

ORACLE · OCT 2023

Oracle Cloud Infrastructure 2023 Certified Architect Associate

ORACLE · OCT 2021

Oracle Cloud Infrastructure Foundations 2021 Certified Associate

THE OPEN GROUP · SEP 2013

TOGAF® 9.1 Certified

ID 76643

SCRUM ALLIANCE · SEP 2014

Scrum Master Certified (SMC)

ID 384630

CISCO · DEC 2023

CCNA: Introduction to Networks

Verify ↗

MONGODB · FEB 2023

MongoDB Java Developer Path

ID MDBae07xscndv Verify ↗

MICROSOFT · AUG 2022

Microsoft Certified: Azure Fundamentals

Verify ↗

MICROSOFT · AUG 2022

Microsoft Certified: Azure AI Fundamentals

Verify ↗

MICROSOFT · SEP 2022

Microsoft Certified: Azure Data Fundamentals

Verify ↗

MICROSOFT · SEP 2022

Microsoft Certified: Security, Compliance, and Identity Fundamentals

Verify ↗

MICROSOFT · MAR 2023

Microsoft Certified: Power Platform Fundamentals

Verify ↗

TRAINING PASSES

Networking Academy Learn-A-Thon 2023 ↗

Cisco Nov 2023 Credly

Software design patterns (150 h)

Coremsa Formación Sep 2022

AWS Cloud Practitioner Essentials (Second Edition)

Amazon Web Services Aug 2019

ID zCVP-T0UfEaVXowhMEwzfg2

Angular 4: Beginner to Pro

Code with Mosh Aug 2019 ID cert_pnw02rx3

Complete Node.js
Code with Mosh Aug 2019 ID cert_tn0dfqbc

Object-Oriented Programming with JS
Code with Mosh Jul 2019 ID cert_rp0kyl7q

Mastering React.js
Code with Mosh Jul 2019 ID cert_nqg9v57q

JavaScript ES6
Code with Mosh Jul 2019 ID cert_ny35yl10

Java 17 / 21 · Kotlin · Spring Boot 3 · Microservices · Sagas · Redis Streams · Kafka · MongoDB · PostgreSQL · Testcontainers · Docker · Distributed tracing · TypeScript · React · Rust · Proxmox

END OF THE LINE

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A Java backend role, an architecture to review or a promising project? Drop me a line.

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https://github.com/danifgxcom