

MIGUEL ÁNGEL MEDINA AGUILAR

Senior Java Architect, Developer & Technical Lead

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PROFESSIONAL PROFILE

Senior Java Developer with **more than 20 years of experience** as java developer in enterprise architecture, technical leadership and digital transformation. Specialist in Spring Boot ecosystem and micro-services implementing architectures as the hexagonal one. Proven experience as technical guide and mentoring, leading multidisciplinary teams in highly demanding agile environments (Inditex, Prosegur, Equifax, MetLife...). Passionate about writing clean, scalable and innovative code. I like to promote a relaxed environment surrounded by good humor, always without losing focus.

Key Strengths:

- Technical leadership and mentoring in agile teams.
 - Microservices architecture and DDD.
 - Security in web and cloud applications.
 - Backend development (Java/Spring Ecosystem).
 - Strong ability to pick up new languages or frameworks (Go/Golang).
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WORK EXPERIENCE

Senior Developer - InAtlas

December 2023 - Present | Madrid (Remote)

Development and maintenance of a SaaS platform specialised in **Big Data & Location Analytics**. Enterprise solution serving over 500 geospatial indicators for business analysis, commercial prospecting and geomarketing.

Highlighted Achievements:

- Evolution and maintenance of location intelligence tool: **GeoBiz, GeoBiz Retail, GeoBiz**
- **Industrial** and **Geopublic** (for public administrations), **GeoCrm** (in development).
- Api Gateway and a Data Selling API using Spring + GraphQL.
- Micro-services improvement applying resilience patterns.
- **AI-driven enhancement**: Enhancements in user and profile administration tool with natural query capabilities using **Spring AI** for intelligent prompt processing.
- Full-stack management of software lifecycle: requirements to deployment in Dev/Qa/Prod.
- Execution of scripts in PostgreSQL and Snowflake with zero-downtime impact.
- Deployment of pull requests through CI/CD in all organisation micro-services.

Tech Stack: Java 8, 11, 17, 21 | Spring Boot 2 | Spring AI | PostgreSQL | Snowflake (Data Warehouse) | Docker | AWS (S3, Secret Manager) | Jenkins | SonarCube | CI/CD | Git/GitHub | GitHub Copilot | Spring Batch | GraphQL | Redis | Kibana (monitoring) | Wrike (issues) | Notion (documentation).

Technical Lead - Neoris (Inditex)

January 2023 - November 2023 | Madrid

Technical leadership of greenfield micro-services project for Zara. Responsible for architecture, technical guidance and mentoring of multidisciplinary team of 6 developers (2 interns). In parallel, making evaluations and giving regular feedback to a group of 15+ people.

Highlighted Achievements:

- Backlog management alongside the PO
- Design and implementation of microservices using MVC and **hexagonal architecture** with DDD.
- Successful technical management of critical project for workshop operations (pressing, packaging).
- CI/CD automation with Spinnaker and quality gates with SonarQube.
- Junior developers **mentoring**.

Tech Stack: Java 17 | Spring Boot 2 (AMIGA Framework) | Maven | PostgreSQL | JPA/Hibernate | Hexagonal Architecture | DDD | Swagger | OpenAPI 3 | Git/GitHub | Postman | Jira | Confluence

Senior Consultant - Neoris (Prosegur)

June 2017 - December 2022 | Madrid

Analysis, design and development in multidisciplinary agile team. Technical leadership in architecture of critical solutions for cash management and payments.

Highlighted Achievements:

- **5+ high-impact projects** successfully delivered:
 - **Log4Shell vulnerability mitigation** (CVE-2021-44228): Implementation of temporary solution until update to a secure version for all projects. Solution deployed to production in 1 day.
 - **Real-time cypher/decypher database** in replacement to Oracle Transparent Data Encryption (Oracle TDE) to comply with the Spanish LOPD.
 - Development of a Java library/**maven dependency** that centralises and automates prevention of critical vulnerabilities (XSS, CSRF, SQL injection) in Java applications.
 - LATAM payments platform **integrated with 12+ banks** (acceptance of cash, mixed and card payments).
 - Cash order manager for Portugal (banking integration).
 - Smart Cash System: user/role/permission management for cash machines. Real-time REST encryption/decryption service (performance-critical).
 - **Secure reverse proxy** (iframe replacement, XSS/CSRF/SQL Injection prevention).
 - OAuth 2 implementation and Azure Cloud integration.
 - Mentoring in best development and unit testing practices.

Tech Stack: Java 6-11 | Spring 3-5 | Spring Boot | Maven | Swagger | Hibernate 3-5 | Oracle 11g/19c | PostgreSQL | Docker | Azure Cloud | Vue.js 2-3 | jQuery 3 Bootstrap | Postman | JMeter | SonarQube | Git/GitHub | ZED Attack Proxy (ZAP)

Functional Analyst / Developer - TCS (Equifax, Metlife)

2012 - 2017 | Madrid

Complete analysis, design and implementation of enterprise projects. Responsible for enhancements and maintenance of different projects.

Highlighted Achievements:

- Design and **implementation of enterprise CI/CD system**: Jenkins + SonarQube + Maven + Archiva + SVN
- Complete architecture: requirements → use cases → design → implementation Security testing automation (OWASP ZED, Jenkins).
- **Application security**: XSS/CSRF/SQL Injection prevention.

Tech Stack: Java JEE | Spring Core/Batch/Security | Hibernate | Oracle 11g | jQuery | Backbone.js | WAS 6 | JBoss 4.x | Tomcat 7.x | Maven | Jenkins | OWASP Zed | SVN

Head of IT Division - Madrid City Council IT Department

2004 - 2012 | Madrid

Technical responsible for migration of legacy systems to modern Java/Spring architecture.

Highlighted Achievements:

- RPT Vista tool: search and query **economic/professional data from 10,000+ employees** (nowadays still in production).
- Legacy systems architecture migration (VB) → Java/Spring.
- Linux servers administration (Debian) + Apache + MySQL.

Tech Stack: Java/Spring | Struts | SQL Server | MySQL | Visual Basic 6 | XML | Linux/Debian | Apache

Functional Analyst / Developer - Alfa Multimedia 2000 - 2004 | Madrid

Analysis, development and implementation of medical management solutions. Responsible for infrastructure and networks.

Highlighted Achievements:

- Medical office management software (GestMed): deployed in 15+ clinics. Medical societies management software: from analysis to operational support.
- Ethernet infrastructure design and implementation.
- Windows NT/2000 and Linux servers administration.

Tech Stack: Visual Basic 6 | SQL Server 2000 | MySQL | Windows NT/2000 | Linux/Debian | Apache | Flash | Director

TECHNOLOGIES AND TOOLS

Backend (Expert)

Java SE/EE • Spring Framework (Core, MVC, Batch, Data, Security) • Spring Boot • Microservices • Hexagonal Architecture • Hibernate/JPA • GraphQL • Redis

Databases (Advanced)

PostgreSQL • Snowflake (Data Warehouse) • Oracle 11g-19c • MySQL • SQL Server • Redis

Frontend (Intermediate)

JavaScript ES6+ • Vue.js 2-3 • jQuery 3 • Bootstrap 3-5 • Angular • TypeScript

Cloud & DevOps

Docker • Jenkins • CI/CD • Git/GitHub • GitHub Copilot • Kibana • AWS Cloud • Azure Cloud • Spinnaker • SonarQube • Go/Golang (In progress)

Testing & Security

JUnit 5 • Mockito • OWASP Top 10 • RSA Encryption • OAuth2 • XSS/CSRF/SQL Injection Prevention • ESAPI • Vulnerability prevention and mitigation.

Management Tools

Jira • Wrike (issues) • Notion (documentation).

Professional Tools

Git/GitHub • Maven • Postman • SonarQube • JMeter • IntelliJ IDEA Ultimate • Jira • Confluence

EDUCATION AND CERTIFICATIONS

Certifications

- **Scrum Fundamentals Certified** | Scrum.org (ID: 665023) | [Certificate](#)

Academic Training

- **Technical Specialist in Management IT** (FPII - Vocational training) | CENEC Formación

Specialised Professional Training (20+ courses)

Java and Spring

- Advanced Features of Java 21 - [Certificate](#)
- Complete Guide To Java Testing with JUnit 5 & Mockito - [Certificate](#)
- Functional Programming with Java - [Certificate](#)
- Java Profiling - [Certificate](#)
- Java Memory Management: Values and References - [Certificate](#)
- Java Refactoring Best Practices - [Certificate](#)
- Java: Advanced Concepts for High-Performance Development - [Certificate](#)
- Java: Lambdas and Streams - [Certificate](#)
- Java: Tips and Tricks – [Certificate](#)
- Aprende Unit Test en Java con Junit 5 y Mockito - [Certificate](#)
- JPA Avanzado_ Uso profesional de JPA con Hibernate - [Certificate](#)
- Java Application Performance Tuning and Memory Management - [Certificate](#)
- Modern Java Mastering Features from Java 8 to Java 25 - [Certificate](#)
- Programacion funcional en Java con Lambdas y Streams - [Certificate](#)
- Spring Framwork y Spring boot – [Certificate](#)
- Master Java: Unit testing (JUnit) - [Certificate](#)
- Test-Driven Development in Spring Boot with JUnit and Mockito – [Certificate](#)

GoLang

- Go Practice: Functions - [Certificate](#)
- Go Standard Library - [Certificate](#)
- Transition from Java to Go - [Certificate](#)
- Unit Testing in Go – [Certificate](#)

Python

- Master Python - [Certificate](#)
- Python Advanced - [Certificate](#)
- Python Advanced 2 - [Certificate](#)
- Python Essential Training - [Certificate](#)
- Python: Common mistakes and how to fix them – [Certificate](#)

Git and GitHub

- 8 Git Commands You Should Know - [Certificate](#)
- Ditch Your Git GUI: Customize Terminal - [Certificate](#)
- GitHub Quick Tips – [Certificate](#)
- Git Github todo un sistema de control de versiones desde cero – [Certificate](#)
- Como implementar GitFlow en Gitlab y Github - [Certificate](#)
- Curso de Git y Github_ GIT PROFESIONAL desde cero - [Certificate](#)
- Master GitHub Copilot – [Certificate](#)

Architecture, patterns and cloud

- Advanced Design Patterns: Design Principles - [Certificate](#)
- AWS Certified Cloud Practitioner (CLF-C02) Cert Prep - [Certificate](#)
- Azure Functions Essential Training (2019) - [Certificate](#)
- Azure: NoSQL development with CosmosDB - [Certificate](#)

Design Patterns: Creational - [Certificate](#)
Master Apache Kafka - [Certificate](#)
Programming Foundations: API and Web Services - [Certificate](#)
Software Architecture: Creating Sustainable Systems Essential Training – [Certificate](#)
Apache Kafka con Java, Spring framework y AWS - [Certificate](#)
Arquitectura Software Moderna DDD, Eventos, Microservicios - [Certificate](#)
Big Data y Spark_ ingenieria de datos con Python y pyspark - [Certificate](#)
Snowflake - The Complete Masterclass - [Certificate](#)

DevOps and Docker

Docker de principiante a experto - [Certificate](#)
Kubernetes para desarrolladores - [Certificate](#)
Working with Docker - OCI Containers using Podman - [Certificate](#)

Software quality

SOLID and Clean Code Principles- [Certificate](#)

LANGUAGES

Language	Level
Spanish	Native
English	C1 (in progress - EOI Madrid)

ADDITIONAL INFORMATION

- **Availability:** According to legal notice provisions
- **Format:** On-site / Hybrid / Remote
- **Areas of Interest:** Software development and enterprise architecture, technical leadership, digital transformation, technological innovation