

GERMÁN CABALLERO RODRÍGUEZ

Senior Software Engineer

(Backend, Frontend, APIs & Enterprise Systems)

Languages
English
(upper-intermediate / B2)
Spanish (native)

german.caballero.rguez@gmail.com

Based near Madrid
Spain



Senior Full-Stack Developer focused on Java, Spring Boot, Angular and C#/.NET, with additional Python experience and hands-on experience in Applied GenAI, RAG, AI agents and backend/API integration.

I built secure web applications and backend services for EU institutions, covering SQL/database systems, digital identity, electronic signatures and document/certificate validation in regulated production environments.

I bring 19+ years of experience in architecture, product delivery, technical consulting and team coordination, combining earlier academic AI experience with current hands-on work in RAG, LLMs and agentic systems.

TECHNICAL SKILLS

	AI / GenAI	Code	Technologies	DB / APIs	Platforms / OS
Expert	Codex	Java	Spring Boot	Oracle	Web
	GitHub Copilot	TypeScript	Angular	REST APIs	Windows/Linux
Advanced	OpenCode / Ollama	Python	JPA/Hibernate	SQL/PostgreSQL	Docker/Compose
	OpenClaw / Cline	C# / .NET	Tailwind CSS	MySQL/MariaDB	Android / iOS
Mid-level	RAG / AI Agents	C / C++	Spring AI	Redis/MongoDB	Cloudflare
	Agentic workflows	PHP	Node/Express	pgvector	macOS / UNIX
DevOps:	Azure DevOps	Git	Jenkins	Confluence	Jira

Selected projects

WORK EXPERIENCE

2025



European Committee of the Regions











2019








2016










2014



SPANISH LANGUAGE ROUTE






2009








2008







Independent Software Consultant – Applied GenAI

B2B

Jan 2026 - Present

Spain

- Developing a cited RAG assistant for **Riansares 4R** with Java 21, Spring Boot/Spring AI, PostgreSQL/pgvector, local LLMs and a deterministic Python control layer for ingestion, embeddings/retrieval, citations, abstention and validation.
- Built a Python/Jinja2 static-site generator and AI-assisted development workflow using Codex and OpenCode with Git worktrees, automated validation gates and code review.
- Built and deployed **Riansares 4R's commercial website** with responsive static pages, local SEO, service/gallery content, Git-based delivery and Cloudflare Pages.

Tech: Java, Spring Boot, Spring AI, Python, Jinja2, PostgreSQL/pgvector, Ollama, RAG, AI agents, Codex, OpenCode, Cline, OpenClaw, GitHub Copilot, tool calling, Git/worktrees, Docker/Compose.

Senior Full-Stack Java/Angular

EU – **Netcompany** - B2B

Nov 2021 - Dec 2025

Remote (Malta, Italy & Spain)

- Delivered and maintained user-facing digital signature workflows for 2 EU institutions, completing frontend and backend development, document/certificate validation in a regulated environment, used in production for over 3 years.
- Developed 4 Angular web applications end-to-end, including product delivery, custom UI components with Tailwind CSS and later PrimeNG-based implementations.
- Standardized shared services, common configurations and reusable UI components across 7 Angular web applications, including documentation and an integration tutorial.
- Maintained and migrated 2 Java/Spring Boot REST API backend applications from Java 8/11 to Java 17, Spring 6 / Jakarta / Hibernate, including JPA and API compatibility updates, and implemented Azure DevOps build/deployment pipelines.

Tech: Java, Spring Boot/MVC/Security/Data/JPA, Angular, PrimeNG, TypeScript, Python, JUnit, Hibernate, Oracle, SQL, Redis, HTML5, Tailwind CSS, DSS, Docker Compose, CI/CD, Jenkins, Azure DevOps, GNU/Linux, Postman/Newman, Swagger/OpenAPI, Maven, AI-assisted tools.

Technical Trainer **Pronoide, INCYDE (Spanish Chambers of Commerce)**

Sep 2016 - Jun 2022

Employee & B2B across Spain

- Designed and supervised a 2022 microservices modernization of Motivation Game M1, including service boundaries, Spring Cloud Gateway, Docker Compose and MariaDB.
- Delivered ~75 classroom and online technical courses across Spain on web development, programming, design patterns, game development, testing and TDD.
- Delivered remote technical training for 12+ organisations and public bodies, including IBM-ViewNext (for Zara), Indra, ATOS, TRAGSA and the Spanish Ministry of Finance.

Tech: Java, Python, C/C++, C#, .NET, Spring (Data/MVC/Boot/WebFlux), Spring Cloud/Gateway, JUnit, Mockito, Angular, React.js, JavaScript, TypeScript, HTML5/CSS3, Bootstrap, microservices architecture, Docker/Compose, MariaDB, Git, MEAN stack (MongoDB, Express, Angular, Node.js), Selenium, Jenkins, SQL, Maven, CI/CD.

C# / .NET & Unity 3D Senior Developer

Freelance

Dec 2017 - Jul 2021

Ireland & Spain

- Built VR virtual-mirror, clothing try-on and educational/medical 3D applications using Unity, C#, Kinect, physics simulation and custom shaders.
- Delivered children's apps and REST API integrations, with code review and product delivery.

Tech: Unity 3D, C#, .NET, HLSL, OpenGL, Kinect, Python (tools), AWS/Cloud, REST APIs, Git.

Earlier Experience

Madrid | Oct 2006 - Aug 2016

- Athagon – Co-founder, Architect & Developer** Feb 2012 - Aug 2016
Motivation Game M1: Java/Spring REST backend + Unity 3D client.
Delivered 4+ products, including **S.L.Route** & **Save the Orcs** (50,000+ Google Play/App Store downloads); also delivered 3 corporate websites.
- Zenithal – Head of development department** Mar 2010 - Oct 2010
GPS tracking and automated data transmission for operational fleets.
- Indra Group – C++ senior programmer** Jul 2009 - Feb 2010
Road/maritime traffic GUIs and VoIP telecom tools.
- CECA – Senior Web Application Programmer** Feb 2009 - Jun 2009
Market Data Service — valuation unit (banking products).
- DATISA – C++ application junior programmer** May 2008 - Feb 2009
Warehouse management and PDA systems.
- MSS – Document-oriented DB junior programmer** Oct 2006 - Apr 2008
Lotus Domino solutions for construction accounting.

Tech: Java, Spring Boot, JPA, REST, AngularJS, JavaScript/jQuery, C#/.NET, Unity 3D, C++, PHP, HTML5/CSS3, MySQL, SQLite, MS SQL Server, Oracle, SOAP, Git/SVN.

International Experience

- Spent nearly three months in Ireland, including Galway, English study and volunteer work.
- Travelled to Belgium for work meetings and technical sessions.
- Lived and worked remotely with international teams across Malta, Italy and Spain.
- Additional exposure in Switzerland, the UK, Germany and Panama.

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Software architecture
Testing
UI/UX (User Experience)
Requirements analysis
Agile methodologies
Quality Assurance
Project planning
Teaching & mentoring
Team coordination

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Agile methodologies

Project planning

Team coordination

Additional Technologies

Jakarta EE, JAX-RS, Servlet API, OWASP, Vue, Redux, NoSQL, Mongoose, Sonar, Apache Cordova/PhoneGap, JSP/JSF, ASP.NET, ADO.NET, Toad, Flask, Xcode, Visual Basic .NET, Xamarin, Windows Forms, XML, XSD, XPath, JSON, AJAX, Android, iOS, wxWidgets, SmartFoxServer, VirtualBox, Lotus Notes/Domino, LotusScript, CMake, SOAP/gSOAP, GIS, Eclipse, Visual Studio, OAuth2, ArcGIS, CVS, Trac, UNIX, Batch/Shell Script, UI/UX.

Jakarta EE, JAX-RS, Servlet API, OWASP, Vue, Redux, NoSQL, Mongoose, Sonar, Apache Cordova/PhoneGap, JSP/JSF, ASP.NET, ADO.NET, Toad, Flask, Xcode, Visual Basic .NET, Xamarin, Windows Forms, XML, XSD, XPath, JSON, AJAX, Android, iOS, wxWidgets, SmartFoxServer, VirtualBox, Lotus Notes/Domino, LotusScript, CMake, SOAP/gSOAP, GIS, Eclipse, Visual Studio, OAuth2, ArcGIS, CVS, Trac, UNIX, Batch/Shell Script, UI/UX.

EDUCATION

Jul-Aug
2026Feb-Jul
2026Mar-Jul
20252022-
2023Apr-Aug
2020

18-2019

Oct
2016

Oct-Dec

Jan-Mar 2010

Nov-Dec
2011

ep 2007

ip 2005

Apr-Jun 2000

2004

1999