

# JUAN GARCÍA DE LA CRUZ GARCÍA

Senior Software Development Engineer

 juangarciadelacruz.com

 contact@juangarciadelacruz.com

 Madrid, Spain

 github.com/JuanGdelaCruz

 /in/juangarciacruz

## SUMMARY

Senior Software Development Engineer building and integrating production software across product interfaces, platform services, data systems, and AI-enabled workflows. Current work focuses on scientific analytics and AI applications at Revvity, including native in vitro analysis, secure context-aware workflows, and cross-system integration. Experience spans React and TypeScript, Python, .NET, AWS, Spotfire, cloud infrastructure, observability, and developer tooling, supported by a background in Mathematics and Informatics and an MSc in Artificial Intelligence.

## TECH STACK

**Focus:** Cross-system integration, API and data-contract design, application lifecycle management, authentication and authorization, security hardening, observability, and CI/CD

**Frontend:** React, TypeScript, JavaScript, Vega, Vega-Lite, Storybook, Vite, React Query, Redux, Material UI

**Backend:** Python, C#, .NET, FastAPI, Node.js, SQL, Oracle, MongoDB, MySQL, Redis, Spotfire

**AI/Scientific:** AWS Bedrock, LLM integrations, agent orchestration, scientific analytics, Data Assembly, normalization, curve fitting, QA/QC

**Cloud/Tools:** AWS, Docker, Terraform, Jenkins, Git, OpenTelemetry, Bash

**Additional:** Angular, Java, C, Unity, Hyperledger Fabric

## PROFESSIONAL EXPERIENCE

- 04/2025 - Present **Senior Software Development Engineer** Revvity | Dec 2022 - Present  
Architected the integration of native in vitro analytics across product interfaces, platform services, and analytics systems. Designed workflows spanning Data Assembly, normalization, curve fitting, QA/QC, and result publishing. Contributed to AI capabilities for secure, context-aware scientific workflows. **Recognitions:** Level 2: Making the Difference (August 2025); Level 1: Going the Extra Mile (April 2025).
- 12/2022 - 03/2025 **Full Stack Software Engineer** Revvity | Dec 2022 - Present  
Worked on core Signals platform components spanning React, .NET, Spotfire, backend services, analytics workflows, and enterprise application behavior. Contributed to feature development, defect resolution, testing, integration, and modernization of scientific software used by research organizations.
- 01/2022 - 12/2022 **Full Stack Software Engineer** Isdefe | Dec 2020 - Dec 2022  
Participated in migrating a web application from a legacy Java 1.5 stack to modern **.NET Core 6**. Optimized server-side rendering, developed in-house JavaScript components, and improved **Oracle** SQL queries, reducing query execution times by up to 60%. Worked across backend and frontend.
- 12/2020 - 12/2021 **Blockchain Architect** Isdefe | Dec 2020 - Dec 2022  
Designed and deployed a **Hyperledger Fabric** proof of concept for maintenance tracking across military aviation and submarine programs. Developed smart contracts, REST APIs with **Node.js**, and **Angular** interfaces, and presented architecture decisions to senior defense stakeholders.
- 09/2018 - 12/2019 **Cloud Migration Analyst** Accenture | Sep 2018 - Dec 2019  
Designed network topologies and automated their deployment in **AWS** using **Terraform**.

## EDUCATION

- 04/2024 - 04/2025 **Master's in Artificial Intelligence** Universitat Internacional de València
- 09/2015 - 08/2020 **Bachelor's in Mathematics and Informatics** Universidad Politécnica de Madrid  
**Thesis:** Bases de Gröbner y aplicaciones (oa.upm.es/63155/)

## INDEPENDENT PROJECTS

- 2022 **Independent Software Developer** Independent
- Radixplace: A prototype of an NFT marketplace for the Radix DLT network.
  - Ferae Capital: Landing page for a Spain-based venture capital firm.

2014-2017

## Indie Game Developer

Independent

- Developed multiple mobile games with over 10,000 combined downloads:
- Notable projects include: 2048 Plus (2017), Haunted Soul (2017), Super Clone Bros (2016), Beat the Rhythm (2015), and Infinitus (2014).

## LANGUAGES

---

**English** - C2 (Cambridge Proficiency Exam), **Spanish** - native