

Sergi Herrador Díaz

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Professional Summary

Backend Software Engineer with fintech and enterprise experience in Java, Spring Boot, AI-driven systems, and software architecture practices. Experienced in building scalable backend services, REST APIs, real-time applications, and data-oriented solutions in production environments. Skilled in Agile development, Clean Architecture, Domain-Driven Design (DDD), and modern backend engineering practices.

Technical Skills

Programming Languages: Java, Kotlin, SQL, JavaScript, Python

Frameworks & Technologies: Spring Boot, REST APIs, Backend Development, Real-Time Systems

Software Engineering: Domain-Driven Design (DDD), Hexagonal Architecture, Clean Architecture, Agile Methodologies, OOP

AI & Data: Machine Learning Fundamentals, Data-driven Systems

Tools: Git, GitHub

Professional Experience

Junior AI Software Engineer | CaixaBank Tech | 2025 – Present

- Develop and maintain backend services in enterprise production environments.
- Contribute to AI-related systems using real-world datasets and data-driven workflows.
- Participate in Agile development processes and cross-functional collaboration.
- Apply software engineering principles to scalable and maintainable applications.

AI Software Engineer Intern | CaixaBank Tech | 2024 – 2025

- Supported backend development and data system initiatives.
- Worked on software engineering tasks within enterprise environments.
- Collaborated with teams following Agile methodologies.

Telecommunications Engineer | APFutura | 2022 – 2024

- Worked with network infrastructure and operational systems.
- Applied SQL and data management concepts in business environments.

Selected Projects

- Water Consumption Prediction System (AI): Designed predictive models using real-world datasets with district, time, and seasonal analysis.

- Real-Time Maps Application: Built a real-time location and marker synchronization system with authentication.
- Urban Safety Application: Developed density-based algorithms for crowd and urban safety analysis.
- Studio Ghibli Explorer: Created an API-based application with database integration and advanced filtering systems.
- Trivia Application: Built a customizable quiz platform with user personalization and dark mode support.

Education

Higher Degree in Multiplatform Application Development (DAM) – Institut Tecnològic de Barcelona | GPA: 9.42

Intermediate Degree in Microcomputer Systems and Networks (SMX) – Institut Mediterrània | GPA: 8.63

Languages

Spanish (Native) | Catalan (Native) | English (Professional Working Proficiency)