

# Marc Serrano

## Software Engineer | AI & Fullstack

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### ABOUT ME

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Backend-focused Software Engineer with 3+ years of experience designing scalable, event-driven systems in Python and Go, currently at Imbee building AI-driven communication platforms used by clients in production. I work hands-on with RabbitMQ, Redis, Docker, and AWS (ECS, Lambda, S3, CloudWatch) to deliver reliable, low-latency microservices.

I'm passionate about turning complex requirements into elegant, maintainable solutions — from API design and distributed data flows to deployment pipelines. I enjoy working in global, cross-functional teams where clean architecture, automation, and real product impact come together.

### PROFESSIONAL EXPERIENCE

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#### Backend Software Engineer | Python, Go & AWS

March 2025 – present

Imbee - Barcelona, Spain

- Design and maintain **Python / Go microservices** deployed on **AWS (ECS, Lambda)**, ensuring reliability and low-latency operations for an AI-powered communication platform.
- Implement **event-driven architectures** with RabbitMQ and Redis to handle large-scale, asynchronous messaging flows.
- Develop and integrate React/TypeScript frontends with backend APIs to deliver end-to-end features for customer support and automation flows.
- Containerize and run services with Docker and Docker-Compose, contributing to smoother deployments and local reproducibility.

#### FullStack Software Engineer

July 2024 – December 2024

Indra - Barcelona, Spain

- Built backend features for transportation control systems using Java, Spring and MVC.
- Developed Angular frontends to expose real-time operational data and configuration tools for operators.
- Helped maintain and integrate legacy ASP.NET 🔄 and Oracle-based systems, ensuring stability while rolling out new functionality.

#### Intern Software Engineer

December 2023 – May 2024

Dynatrace - Barcelona, Spain

- Developing an application (Product Analytics) based on analyzing in more detail the performance of your websites and applications.
- Maintenance of the platform including new features and testing with the latest technology.
- Learning best practices and principles such as Clean Code, Object Calisthenics, etc.
- Work in an agile environment with knowledge on Jira.

#### Junior Software Developer

August 2022 – September 2023

Applus+ - Barcelona, Spain

- Improved the performance of core vehicle inspection (ITV) programs by optimizing internal processes.
- Developed small applications and features using Java and C# on the .NET Framework, and performed maintenance tasks with SQL Server databases.
- Also contributed to web interfaces using Angular and JavaScript, enhancing user experience and operational efficiency.

### EDUCATION

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#### Bachelor's Degree in Computer Engineering for Management and Information Systems

September 2019 – June 2024

Tecnocampus (ESUPT) Universitat Pompeu Fabra

## SKILLS

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- Go & Python
- Event-Driven Architecture
- REST APIs · MVC · Clean Code
- Front-end Architecture & Design
- Chatbots with IA
- Docker & Docker Compose
- React
- Spring Framework & Java
- CI/CD Automation
- AWS (ECS, Lambda, S3)
- Javascript/Typescript expertise
- Next.js

## NOTABLE PROJECTS

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### Hairboard

A platform for managing aesthetic services, including client management, reservations, and invoicing. Built with Java, Spring Framework, MySQL, and a front-end using Angular and TypeScript.

### Fakeflix

A movie browsing web with React, Tailwind CSS, Webpack, and Jest. Users can browse movies, view details, and add them to a wishlist. Data is fetched from an API, with dynamic carousels and a responsive UI.

### Transports TCM

Company of transport of frozen food, it has to develop the calculations that makes the trucks depending on the price, the distance that it travels looking for the most optimal solution. Developed with Java, Spring Framework and MySQL

## LANGUAGES

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**Spanish:** Native

**English:** B2

**Catalan:** Native