Marcos Ruiz-Flores Vicente

Backend Software Engineer – Java, Spring Boot, Microservices
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Summary

Backend Software Engineer at Allianz Technology, building and operating **Java and Spring Boot microservices** in production for an enterprise pricing platform. Outside work I built and run **Torii**, a live product where I own the backend API and the React front end it serves. I use **AI-assisted tools (Claude Code)** every day and review everything they generate. I care about reliability, simple designs and code that is easy to debug.

Experience

Allianz Technology Nov. 2025 – Present
Software Engineer (Backend) *Barcelona, Spain*

- Build, ship and operate **Java and Spring Boot microservices** for an enterprise insurance pricing platform, owning features from design through rollout and production support.
- Design and integrate **REST APIs** with internal and external systems, and **asynchronous, event-driven** communication between services with **Apache Kafka**, **ActiveMQ** and **Apache Camel**.
- Debug production issues across distributed services, tracing them to the root cause and fixing them before escalating.
- Work with relational and NoSQL data stores through **Spring Data JPA/Hibernate and SQL**, with **Redis** caching on hot paths.
- Ship containerized services with **Docker, Kubernetes and AWS** through **Jenkins CI/CD** pipelines.
- Write unit and integration tests (**JUnit, Mockito**) and take part in **code reviews**, in an international **Agile/Scrum** team working in English.

La Salle Campus Barcelona Sep. 2024 – Jul. 2026
Teaching Assistant – Computer Engineering *Barcelona, Spain*

- Supported students in Operating Systems (**C, processes, concurrency**), Systems Administration (**Linux, Bash**) and Databases (**PostgreSQL, Oracle, MongoDB**); reviewed and debugged their code.

Projects

Torii – Flight Deal Search Engine (live at toriitravel.com) | *Java 21, Spring Boot, PostgreSQL, React* 2026

- Scoped, built and operate the whole product on my own: a **Spring Boot API** on Railway serving a **React and TypeScript** UI on Vercel, shipped through **GitHub Actions** CI with automatic deploys on every merge to main.
- Run hundreds of provider calls per search in parallel with **Java 21 virtual threads**, behind one interface with **automatic failover** between external flight APIs.
- Added a **Caffeine cache** per date pair whose TTL depends on how close the trip is, trading data freshness for latency and API cost.
- Implemented stateless **Spring Security with JWT**, email verification, password reset and per-plan quotas, on **PostgreSQL** with versioned **Flyway** migrations.

Education

La Salle Campus Barcelona 2020 – 2026
Bachelor's Degree in Computer Engineering *Barcelona, Spain*

- **Bachelor's thesis:** Impact of Quantum Computing on Cybersecurity. Ran Shor's and Grover's algorithms on IBM Quantum 156-qubit processors (Python, Qiskit) and benchmarked NIST post-quantum algorithms against RSA-2048.

Skills

Languages: Java, Python, TypeScript, JavaScript, C, SQL, Bash
Backend and APIs: Spring Boot, Spring Security, Spring Data JPA, Hibernate, REST, Microservices, FastAPI
Distributed Systems: Apache Kafka, ActiveMQ, Apache Camel, Redis, Caffeine, Virtual Threads
Data Stores: PostgreSQL, Oracle, MySQL, MongoDB, Redis, Flyway
Infrastructure and Delivery: Docker, Kubernetes, AWS, Jenkins, GitHub Actions, CI/CD, Linux
Front End: React, TypeScript, Vue.js, Tailwind, HTML, CSS
AI-Assisted Development: Claude Code (custom skills, hooks, subagents)
Testing: JUnit, Mockito, MockMvc, Integration Testing, Code Reviews

Languages

Spanish: Native | **Catalan**: Native | **English**: Professional working proficiency (daily working language)