Néstor Tur

Full-stack developer · Java, Spring and applied AI

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Profile

Full-stack developer with four years split between quality and development, with Java on both sides. I build Java back ends and React front ends on legacy production systems, with generative AI worked into the pipeline. What interests me is the data problem behind the back end, not the mock-up.

Experience

Software Developer | 2024 – present
NTT DATA · Barcelona

- **Mapfre project.** Corrective maintenance on a live production system and new features in Java, React and MySQL.
- **ICS Insurance project.** Tooling that supports migrating IBM Mainframe environments to Micro Focus.
- Generative AI solutions with **Spring AI** applied to the company's cloud environment.
- Back end for **MCP tools**: the bridge between model and application, with contracts, permissions and call tracing.
- Daily technical communication in English.

QA Engineer | 2021 – 2022
Zeelo · Barcelona

- Testing on Java, Python and UI code, with automated tests in Cypress.
- Agile methodology with JIRA and reproducible defect reports.
- Direct contact with the development team, communicating in English.

Personal projects

- **AI-powered outreach SaaS.** Multi-company outbound CRM built from scratch: 103 endpoints, 49 entities, 135 tests and 21,733 lines of Java in Spring Boot 3.5 with React 18.
- **Offline live subtitling.** Japanese to Spanish with Whisper on CPU: no user audio ever leaves the machine.
- **Self-hosted inference server.** OpenAI-compatible API for local models; every other project consumes it by changing one environment variable.
- **Java back end for game matchmaking.** Web app, APK and server with time-slot availability and match scoring: 37 endpoints, Flyway and Docker deployment.
- **Three more cases:** AI lead generation, a game engine run by six agents and a data warehouse for team video editing.

Tech stack

Languages	Java 21, Python, JavaScript, PHP, SQL
Back end	Spring Boot, Spring AI, REST APIs, JPA / Hibernate, Maven, Gradle
Front end	React, HTML5, CSS, TailwindCSS, Angular, Laravel
Applied AI	Local LLMs with Ollama, RAG and vector stores, MCP, agents, embeddings, faster-whisper
Data	MySQL, PostgreSQL, MariaDB, SQLite, Flyway
Infra	Docker, Nginx, Oracle Cloud, Linux, Windows, macOS
Quality	JUnit, Cypress, Git

Education

Full Stack Java Programming
Fundación Esplai · 2024 · 376 h
Object-oriented Java, Git, MySQL and web development. Certified.

CFGS Multiplatform Application Development
IES Poblenou · 2020 – 2023
Java, XML storage, MySQL and SQLite, web development with PHP.

CFGM Microcomputer Systems and Networks
IES Poblenou · 2018 – 2020
Networks, Linux and Windows, servers and services, cybersecurity.

Additional: CCNA Routing and Switching (2019) and Erasmus+.

Other details

Spanish and Catalan: native. English: advanced, used daily at work. Driving licence. Official disability certificate.