

GERARD BOSCH

Software Engineer
Freelancer/Contractor

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➤ Enthusiast about Functional Programming, software engineering/craftsmanship, clean code, architectural/design patterns and programming languages theory.

➤➤➤ SUMMARY

[📖 👁️ Read more about *my best practices* and skills | 📄 Read the *extended CV* version]

My background is mostly about designing/implementing backend systems and APIs. I have good analysis skills and can break down requirements well and transform that into code. Really concerned about the code itself, its readability, expressiveness, precision, and conciseness. Continuous improvement advocate & continuous refactor and code reuse as a mantra. Accidental-complexity fighter. Curious by nature, proactive and self-taught. Like learning 😊, love crafting ❤️.

➤➤➤ EXPERIENCE

Presentations

- 2020 **Functional Programming super-short intro**
- 2018 **A technical introduction to Blockchain technology**

(Break) / Software Engineer

Self employed, 2022–2023

- I set up my own company to provide software engineering services as a contractor.
- Algorithmic trading, research, design & implementation of safety mechanisms for loss control, as well as key metrics collection/reporting using DDD & Hexagonal arch.
- High level design of a multi-level affiliation system with referral fee distribution.
- Took a break from industry. Learning about finances, markets and investments.

Software Engineer

N26 Bank, 2021–2022

- Joined the fees team, which is in charge of designing and operating a new fee platform intended to be the new-standardized way of charging company-wide banking fees. That implied not only the creation of a dedicated microservice, also re-purposing and refactoring of existent ones (by DDD/CleanArch), along with APIs, as well as DB migrations.
- Being a bank, testing is one of the most important and cared matters (pyramid testing, contract testing, regression, TDD,...).
- Stack: *Kotlin, Spring Boot, Microservices, EDA, Kafka, REST, Postgres, Datadog, ELK, AWS,...*

Senior Software Engineer

GFT IT Consulting, 2016–2021

- *Banc Sabadell: Middleware Architecture* (2020–2021) – Redefine from scratch a whole new framework and development environment based on MsA, Spring Boot, API-First, Event Driven, DDD, Hexagonal and so forth – **Role:** Software Engineer.
- *Banc Sabadell: PSD2 & APIfication* (2018–2020) – Design & implement the APIs and requirements for the European **PSD2 regulation**; leading the first approach to API exposition for the Bank. Define and implement architectural components for the MsA where I was established as the technical lead for the dev team – **Role:** Tech Lead.
- *Bankinter: Microservice Architecture* (2017) – Development of an architecture based on MsA and Spring, providing the pre-configured components: from security, tracing, audit, error handling to cryptography; enabling developers to easily get started.

Software Engineer

ICG Software, 2014–2016

- Develop mobile solutions for retail in Android and Windows Phone platforms.

Researcher/developer

AI Research Institute IIIA-CSIC, 2011–2013

- NEWMATICA: Intelligent and Energy Efficient Advanced System for Vacuum Waste Collection.*
- Research Machine Learning algorithms based on *Approximate Dynamic Programming* (RL).
- Develop a waste collecting simulator to optimize operational plans, run simulations, collect data/process results.

➤➤➤ EDUCATION (to see more, view the *cv* version)

M.Sc. Open Source Software Eng.

University of Lleida (ES) / VIA UC (DK), 2011

- Master Thesis: *Setting up and deployment of Sauron system for DNS system management at University of Lleida.* Mobility internship program at VIA UC, Denmark.

CONTACT

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PROGRAMMING LANG

Kotlin	★★★★★
Java 21	★★★★★
Scala 3	★★★★★
Bash	★★★★★
Haskell	★★★★★
Python	★★★★★
Perl	★★★★★

TECHNOLOGIES

- 🔗 Spring Boot 🔗 Vavr 🔗 OAuth/JWT
- 🔗 Maven/Gradle/sbt 🔗 JGitVer
- 🗄 SQL 🔗 API First & OpenAPI 3
- 🐳 Docker 🔗 OpenShift 🔗 Cloudflare
- 📦 Devcontainers 🔗 Testcontainers

TOOLS

- 🔗 IntelliJ / VSCode / vim :)
- 🔗 Git 🔗 ZSH 🔗 Codestream
- 🐧 Linux 🔗 Nix

IN GRAPHICS...

