

GERARD BOSCH

Software Engineer
Freelancer/Contractor



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

» Good at identifying inefficiencies, **finding solutions** and **improving processes**. I enjoy collaborating with diverse teams to solve challenging problems.

»»» 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. Skilled in analyzing requirements and translating them into code. Focused on code readability, expressiveness, precision, and conciseness. Committed to continuous improvement & 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](#)

Software Engineer

Self employed, 2022–2023

- 🎯 *Established my own company to provide software engineering services as a contractor.*
- » Algorithmic trading, research, design & implementation of a risk management system 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 to learn about finances, markets, investments and expand Fintech expertise.

Software Engineer

N26 Bank, 2021–2022

- 🎯 *Collaborated to streamlining the processing of banking fees with the goal of having a more centralized and clear domain boundaries for charging fees.*
- » Joined the Memberships team, which was in charge of designing and operating a new fee platform intended to be the new-standardized way of charging company-wide banking fees. This involved creating a dedicated microservice, repurposing and refactoring of existent ones (by DDD/CleanArch), along with APIs, as well as DB migrations.
- » Being a bank, testing and security were some 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

- 🎯 *Successfully delivered a large and complex regulatory banking project to provide external, permission-based access to banking APIs, ensuring on-time completion. Then, I was called to contribute building a new bank architecture for high-concurrency, based on acquired know-how.*
- » **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**; pioneering the 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

- » Developed mobile apps for retail in Android and Windows Phone platforms from scratch.

Researcher/developer

AI Research Institute IIIA-CSIC, 2011–2013

- NEWMATICA: Intelligent and Energy Efficient Advanced System for Vacuum Waste Collection.*
- » Investigated Machine Learning algorithms based on *Approximate Dynamic Programming* (RL).
- » Co-developed 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.

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CONTACT

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PROGRAMMING LANG

Kotlin	★★★★★
Java 22	★★★★★
Scala 3	★★★★★
Bash	★★★★★
Haskell	★★★★★
Python	★★★★★
Perl	★★★★★

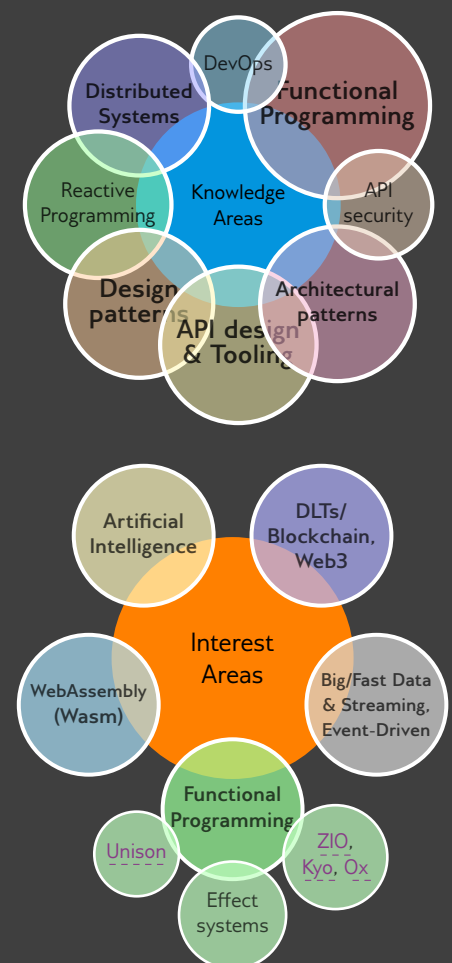
TECHNOLOGIES

- 🔗 Spring Boot 🔗 Vavr 🔗 oAuth/JWT
- ☁ Cloud-Native / AWS 🐳 Docker
- 🗄 SQL 🏗 API First & OpenAPI
- 🔗 OpenShift ☁ Cloudflare
- 📦 Devcontainers 📦 Testcontainers
- 🔗 Maven/Gradle/sbt 🌐 JGitVer

TOOLS

- 🔗 IntelliJ / VSCode / vim :)
- 🌐 GitHub Actions 🏗 GitLab CI 🤖 Jenkins
- 🔗 Git >_ ZSH 🗨 Codestream
- 🔗 CI/CD 🐧 Linux 📦 Nix

IN GRAPHICS...



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