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.

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

SUMMARY

[📝 *Read the extended CV version at* **cv.gerardbosch.xyz**]

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).
> Implement 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.

IN GRAPHICS...