



» 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. 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*

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 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.
- » I took a break from industry to learn about finances, markets, and investments.

Software Engineer N26 Bank, 2021–2022

-  I contributed to streamlining the processing of banking fees with the goal of having a more centralized and well-defined domain 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*; 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

- » 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.*
- » Researched 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.

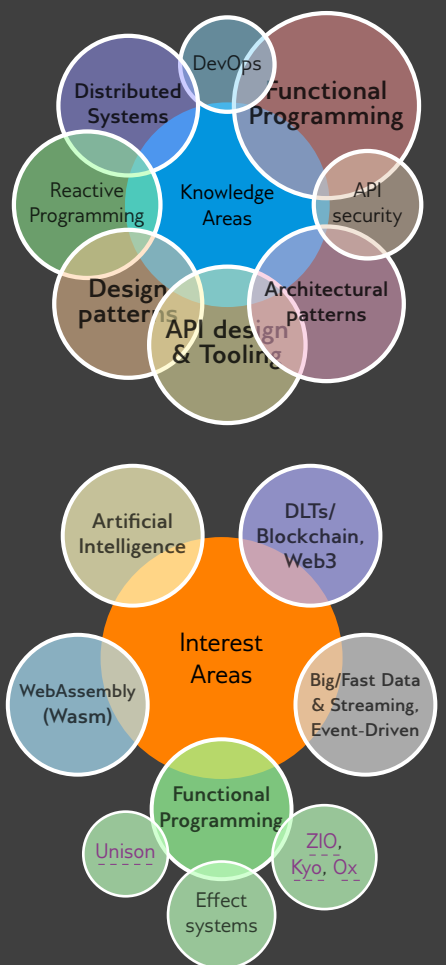
»»» EDUCATION *(to see more, view the cv version)*


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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 github.com/gerardbosch

 gerardbosch.xyz

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

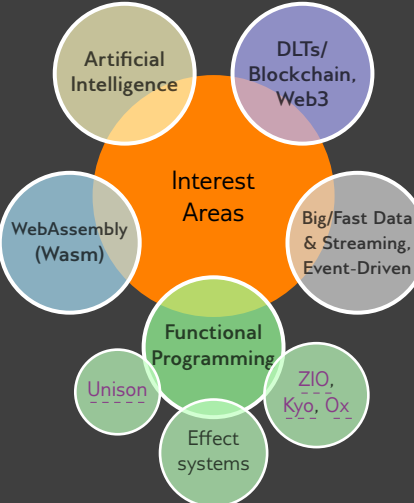
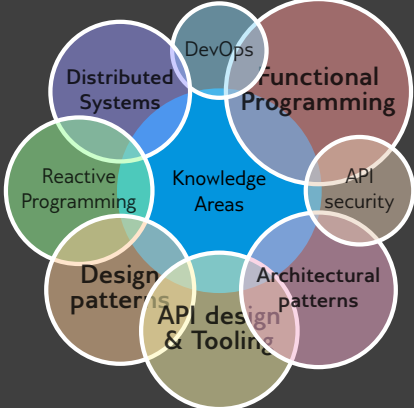
 IntelliJ / VSCode / vim :)


 GitHub Actions  GitLab CI  Jenkins

 Git  ZSH  Codestream

 CI/CD  Linux  Nix

IN GRAPHICS...



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