



## GUILHERME FERREIRA

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Last update in October 3, 2021

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### SELECTED WORK

Aug. 2021 — present

@ BlaBlaCar 📍 Remote

**BlaBlaCar**, Software Engineer (*Engage Team*)

- Managing carpool domain events which allow notifying users (by SMS, email, push) of their trip in an application used by 100M members.

**Technologies.** Java 17 Kafka Cassandra Microservices Datadog GCP

2021 — Aug. 2021

@ Beorn Technologies 📍 Toulouse

**Orange**, Software Engineer (*Orange Business Service*)

- Worked alongside the OPs team to create a domain-specific language for provisioning data automatically during deployments, resulting in an 85% reduction of prod incidents.
- Built a formal language on top of Java using **ANTLR**. Used the visitor pattern to process AST nodes by executing SQL statements, calling RESTful APIs, or running Groovy scripts.
- Detected and rewrote slow SQL queries to use batch updates, which reduced the execution time by 3.5x.

**Technologies.** Core Java 11 G4 Lexer&Parser Groovy PostgreSQL 12 Gitlab CI templates

2020 — 2021

@ Beorn Technologies 📍 Toulouse

**AIRBUS**, Software Engineer (*OneWeb Satellites*)

- Reduced time to upload satellites data by 75% by implementing an event-driven architecture with RabbitMQ.
- Built sophisticated mock RESTful APIs in **Python Flask** that enabled our internal QA team to report critical bugs earlier in the integration phase.
- Worked within an agile team and helped prioritize and scope feature requests to ensure that the biggest impact features were worked on first.

**Technologies.** Python 3 Kotlin mockk Cucumber Framework Elasticsearch

2018 — 2020

@ Beorn Technologies 📍 Toulouse

**Beorn Technologies**, Software Engineer (*Web platforms and Cloud migration projects*)

- Led a dozen projects within the company to build, evolve and maintain citizens portal like **Toulouse.fr**, **La Rochelle**, **Grand Châtellerauld**.
- Build an **Application Tracking System** that accounted for 30% of the company's annual revenue currently used by **Portail Emploi** and **IUCT**.
- Migrated the company infrastructure to AWS Cloud on top of EKS. Cut \$400/month in the bill by implementing a custom **NGINX Ingress** to replace the **AWS ELB**.

**Technologies.** Kubernetes NodeJS Java 8 Kotlin Python AWS

2017 — 2018

@ Mercedes-Benz.io 📍 Lisbon / Stuttgart

**Mercedes-Benz.io**, Software Engineer (*Test Drive team*)

- Reduced the leads lost rate to under zero implementing fault tolerance and asynchronous processing mechanism with RabbitMQ and Amazon SES.
- Reduced the page loading time from 3s, sometimes up to 10s, to 1s by using Hibernate Ehcache.
- Rolled out the application every two weeks into more than **25 countries**. Managed the releases contents and routinely presented the application evolutions and the roadmap to the top-level management.
- Implemented from scratch a back-office application with similar features of **Firebase Realtime Database**

**Technologies.** Spring Boot CloudFoundry Vue AngularJS Kotlin RabbitMQ Docker

2016 — 2017

@ Xpand-IT 📍 Lisbon / Frankfurt

**Commerzbank**, Software Engineer (*Fintech team*)

- Designed and implemented the Enterprise Service Bus of a home banking application that handles 5K+ queries per second.
- Implemented operations like login, list statements, upload documents, among others.
- Implemented a custom **two-phase commit protocol** to assure that operations like immediate transfers could be performed.

**Technologies.** Red Hat JBoss Fuse SwitchYard Apache Camel WSDL SOAP

2015 — 2016

@ Multicert 📍 Lisbon

**Multicert**, Software Engineer (*CA core team*)

- Reengineered **EJBCA** to be used as the first Portuguese Root Certification Authority.
- Changed the building tool from Apache Ant to Maven from a **project with more than 37 modules and 322K LOC**
- Created an installation wizard that reduced installation problems by 90%.
- Redesigned the front-end using PrimeFaces, which increased sales by 20%.
- Reduced the time to generate a certificate from 4.5s to 2.1s by improving the lock mechanism.

**Technologies.** JEE 7 JSP PrimeFaces ShellScript JMeter Vagrant

### EDUCATION

2013 — 2015

📍 Lisbon

**Technical University of Lisbon**. MS in Information Systems and Computer Engineering  
(*Major: Distributed Systems, Minor: Software Architecture*)

2010 — 2013

**Technical University of Lisbon**. BS in Information Systems and Computer Engineering.