GUILHERME FERREIRA

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✎ Last update in October 4, 2021

SELECTED WORK

Aug. 2021 — present   @ BlaBlaCar   ⚲ Remote
BlaBlaCar, Software Engineer *(Engage Team)*
- Used the visitor pattern to reduce coupling in the Kafka consumer, which reduced the time to add a new event handler by half.
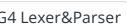
Technologies. Java 17 | Kafka | Cassandra | Microservices | Datadog | GCP
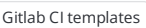
2021 — Aug. 2021   @ Beorn Technologies   ⚲ Toulouse
Orange, Software Engineer *(Orange Business Service)*
- Worked alongside the OPs team to create a domain-specific language for provisioning data automatically during deployments, resulting in an 85% reduction of prod incidents.
- Built a formal language on top of Java using **ANTLR**. Processed the 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 Châtellerault**.
- 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.
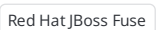- Implemented from scratch a back-office application with similar features of **Firebase Realtime Database**

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.