GUILHERME FERREIRA

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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   Casandra   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   TDD

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.