



GUILHERME FERREIRA

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SELECTED WORK

2021 — present

@ Beorn Technologies Toulouse

Orange, Software Engineer (*Orange Business Service*)

- Led the migration of a monolithic B2B platform into service-oriented architecture. Delivered the first MVP in one month and cut the initial estimation in half by shifting development between teams across different stacks.
- Eliminated code duplication in 30+ projects across the organization by creating a **shared gitlab ci template**.
- Improved SSO authentication security by adding server token validation with **Google Tink**.

Technologies. Liferay CMS Gitlab CI OSGi SiteMinder SSO helm kotlin

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.
- Added unit tests with a project line coverage of 95%, which reduced the QA backlog from 40H/week to 8H.
- Detected vulnerabilities and critical bugs before the app reaches the UAT env by adding **Snyk orb** and SonarQube to the integration pipeline.
- Helped the client prioritize epics and define the product roadmap.

Technologies. Liferay DXP 7.x Circle CI 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 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 Node 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.