



## GUILHERME FERREIRA

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Last update at July 9, 2020

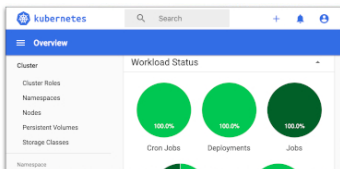
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### GOAL

I intend to help developer teams to deliver **high-quality** products that add **value** to the customer.

### SELECTED WORK



Jan 2019 —

@ Beorn Technologies On-Demand Toulouse

**AWS Cloud Migration**, project driver and lead. Migrated the company infrastructure to the cloud currently hosting more than 8 production platforms. Chosed AWS EKS and provided a technical and financial study to support it. Cuted \$400 in the bill replacing the **AWS ELB to NGINX Ingress controller**.

Implemented a PaaS solution with CI/CD and similar features as **Liferay Cloud Platform**. Build Liferay images with jib and used circleci to orchestrate the deployments.

**Technologies.** Liferay 7.x Springboot Java 8 React / Redux



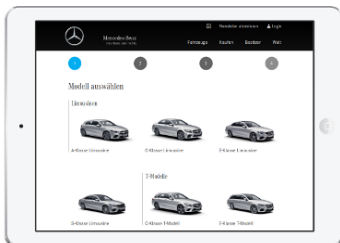
Oct 2018 —

@ Beorn Technologies On-Demand Toulouse

**Architected and developed Portail Emploi**, leded a team of 5 developers and devilered the first MVP version in less than a month.

Used **JHipster** to accelerate the deveoplment cycles. Integrated with **emploi store API** with industry standard Open API. Desined the project APIs to easily split tasks and distribute the work. Assembled the final project in a SPA inside Liferay CMS.

**Technologies.** Liferay 7.x Springboot Java 8 React / Redux



2017 — 2018

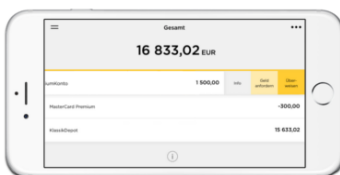
@ Mercedes-Benz.io Digital Media Lisbon / Stuttgart

**Mercedes-Benz.io** Lead developer, maintained and evolved the **Test Drive Application**. 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.

Rollod out the application every two weeks into more than 25 countries, I 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 Angular Kotlin RabbitMQ Docker



2016 — 2017

@ Xpand-IT FinTech Lisbon / Frankfurt

**Commerzbank**. 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

CA Health State		
CA Name	CA Service	CRL Status
ManagementCA	✓	⚠
CA_PKI_ROOTCA (Root CA)	✓	✓
Guilherme Assured CA	✓	⚠
Foo Bar Test CA	✗	✗

Powered by multcert

2015 — 2016

@ Multicert Cyber Security Lisbon

**Reengineered EJBCA** to be used as the first Portuguese Root Certification Authority. From a **project with more than 37 modules and 322K LOC**, I changed the building tool from Apache Ant to Maven. I ended with all errors caused during manual installation by automating it with scripts.

Redesigned the front-end using PrimeFaces, and 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

2015

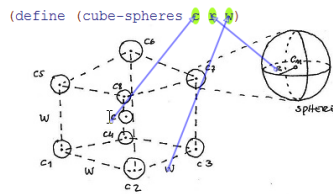
@ Multicert E-Commerce Lisbon



**Adapted a Digital Certificate eCommerce** for physical stores and deployed it at more than 300 **CTT post office stores**.

I optimized the UX/UI experience for tablets and terminals. I exposed a REST endpoint and integrated the barcode 128 algorithm, so the operators could use the scanner to retrieve the certificate price.

**Technologies.** JEE 6 Java 7 Spring Web Flow JSP C JBoss AS 7



2014 — 2015

@ INESC-ID R&D Lisbon

**Rosetta.** Empowered Rosetta environment with a code playground where users can create their designs by interacting with the code.

Initiated, designed, prototyped, and implemented programming tools such as the **sketch-correlation** tool which correlates image with code illustrating the intent of each piece of code.

**Technologies.** Racket (Lisp) DrRacket (IDE) AutoCAD API Rhinoceros 3D API OpenGL

## EDUCATION



2013 — 2015

**IST.** MS in Information Systems and Computer Engineering.

Thesis: **An Enhanced Programming Environment for Generative Design.** I invented a programming environment where architects can implement their sketches, share the code, and create systems. I provided a theoretical foundation and implemented novel programming tools tailored to the generative design domain. Those tools were used in an architectural course by more than 60 students.

2010 — 2013

**IST.** BS in Information Systems and Computer Engineering.