



GUILHERME FERREIRA

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GOAL

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

SELECTED WORK

Oct 2018 —

@ Beorn Technologies On-Demand Toulouse

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

Used **JHipster** to accelerate the development cycles. Integrated with **emploi store API** with industry standard Open API. Designed 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



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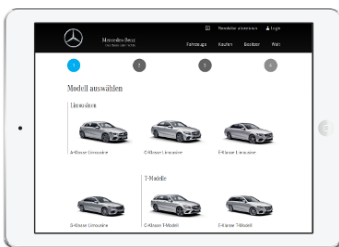
Technologies.

Liferay 7.x

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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.

Rollout 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

Java 8

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 used by millions of users. 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.

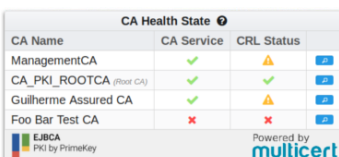
Red Hat JBoss Fuse

SwitchYard

Apache Camel

WSDL

SOAP



2015 — 2016

@ Multicert 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

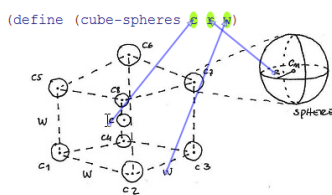
@ Multicert E-Commerce Lisbon

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.