GUILHERME FERREIRA

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Last update at July 6, 2020

GOAL

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

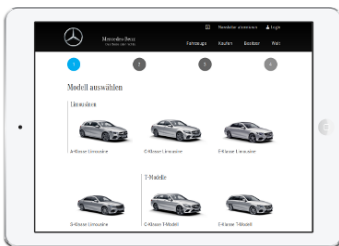## SELECTED WORK

Oct 2018 —   @ Beorn Technologies   On-Demand   Toulouse

Beorn Technologies Managed teams as a **tech lead**. Worked in a full-stack mode helped to define the project roadmap, deadlines, and deliveries. Constantly pushing for quality, favoring the best practices and focusing on code reviews.

Developed **Portail Emploi** – a job portal for Toulouse Metropole where users can search and apply for job offers. It integrates with external services such as Pole Emploi and provides CMS functionalities through Liferay Portal.

Among other roles, I actively worked in DevOps improving the company's PaaS. Setup ci/cd pipeline, Nexus repositories, and Sonar Qube statistics. I joined several interviews and tutoring internships.

Technologies. | Liferay 7.x | Springboot | Java 8 | React | Redux |

2017 — 2018   @ Mercedes-Benz.io   Digital Media   Lisbon / Stuttgart

Mercedes-Benz.io Helped to found Mercedes-Benz.io in Lisbon. Contributed to defining the recruitment process. I reviewed the applicants' code and participated in several interviews.
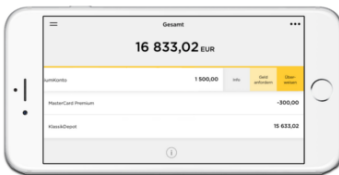
Maintained and evolved the **Test Drive Application**. Implemented fault tolerance and asynchronous processing. Reduced the page loading time from `2.5s` (*sometimes up to* `10s`) to `1s` by using a cache mechanism.

I managed the releases, launching new versions every two weeks. Automated the deploys by implemented the `ci/cd` pipeline. Rolled out into more than `25` countries. 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**

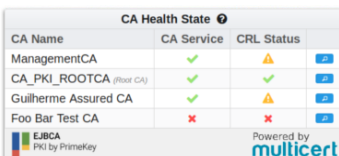**Technologies.** Spring Boot, Java 8, Kotlin, RabbitMQ, Docker, Vue, Angular

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 |
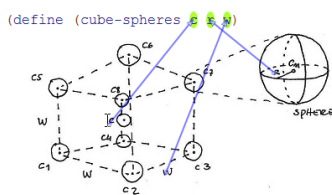
2015   @ Multicert   E-Commerce   Lisbon

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

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 scan 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.