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GOAL

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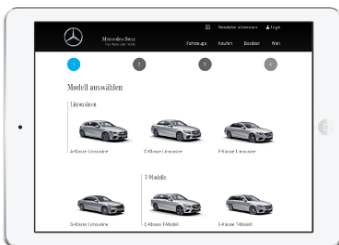
SELECTED WORK

Oct 2018 —   @ Beorn Technologies   📊 Consulting   📍 Toulouse

Beorn Technologies *(Toulouse)*   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
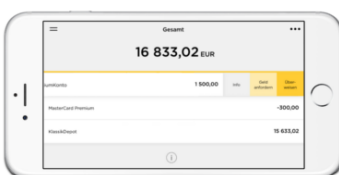
2017 — 2018

Mercedes-Benz.io *(Lisbon / Stuttgart)*   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

Commerzbank Online Banking *(Lisbon / Frankfurt)*   As a backend developer, I designed and implemented the enterprise service bus. Provided services such as login, show bank statements, send an email, upload documents, CashClick *(an immediate transfer between a credit card and account)*, among others.

Integrated external services through well-defined contracts. Deployed the final product into the client infrastructure.

Technologies. Red Hat JBoss Fuse, SwitchYard, Apache Camel, WSDL, SOAP

2015 — 2016

EJBCA redesign *(Lisbon)* Redesigned and reengineered the **Enterprise Java Bean Certificate Authority** *(PKI used by the first Portuguese Root CA)*.

Upgraded the building tool *(from Apache Ant to Maven)* in a project with more than `37` modules and `322K` LOC. Added support for different application servers and databases. Implemented the front-end from scratch, added features such as CRL partitions, and audit logs.

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

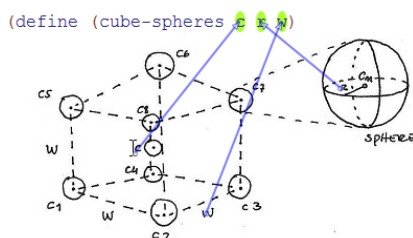**Digital Certificate eCommerce** *(Lisbon)* Adapted the web application to be used in physical stores (used by CTT *the Portuguese post office*).

Updated the purchase flow, including the presentation and service layer. Optimized it for tablets and terminals.

Implemented a hardware integration using the barcode `128` algorithm. The certificate price was printed out on barcode, then retrieved through the implemented web service.

Technologies. Java 7, Spring Web Flow, C, JSP, JBoss AS 7

2014 — 2015

Rosetta researcher fellow *(Lisbon)* *A European funded project* which aims to support the procedural creation of architectural models.

Initiated, designed, prototyped and implemented several integrated tools used in the Rosetta programming environment. As an example, the **sketch-correlation** tool which correlates image with code illustrating the intent of each piece of code.

Technologies. Racket (Lisp descendant language), DrRacket (IDE)

EDUCATION

2013 — 2015

IST. MS in Information Systems and Computer Engineering.

Thesis: **An Enhanced Programming Environment for Generative Design**. Conducted a survey on the programming environment tools. I provided a theoretical foundation to select the programming tools more appropriate to write, document, and comprehend a program. Implemented and integrated these tools in a programming environment used in an architectural course (with more than `30` students).

2010 — 2013

IST. BS in Information Systems and Computer Engineering.