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 Last update in March 26, 2022

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



SELECTED WORK

Aug. 2021 — present

@ BlaBlaCar  Remote

BlaBlaCar, Software Engineer (*Engage Team*)

- Used the visitor pattern to reduce coupling in the Kafka consumer, which reduced the time to add a new event handler by half.


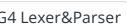


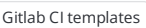
Technologies.      

2021 — Aug. 2021

@ Beorn Technologies  Toulouse

Orange, Software Engineer (*Orange Business Service*)

- Worked alongside the OPs team to create a domain-specific language for provisioning data automatically during deployments, resulting in an 85% reduction of prod incidents.
- Built a formal language on top of Java using **ANTLR**. Processed the AST nodes by executing SQL statements, calling RESTful APIs, or running Groovy scripts.
- Detected and rewrote slow SQL queries to use batch updates, which reduced the execution time by 3.5x.

Technologies.     

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.
- Built sophisticated mock RESTful APIs in **Python Flask** that enabled our internal QA team to report critical bugs earlier in the integration phase.
- Worked within an agile team and helped prioritize and scope feature requests to ensure that the biggest impact features were worked on first.






Technologies.     

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 Châtellerault**.
- 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.      

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 **Firestore Realtime Database**

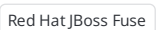




Technologies.       

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.     

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.      

EDUCATION

2013 — 2015

Technical University of Lisbon. MS in Information Systems and Computer Engineering
(*Major: Distributed Systems, Minor: Software Architecture*)

 Lisbon

2010 — 2013

Technical University of Lisbon. BS in Information Systems and Computer Engineering.