Last update in March 26, 2022 SELECTED WORK Aug. 2021 — present 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.** Java 17 Kafka Cassandra Microservices Datadog GCP 2021 — Aug. 2021 **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.** Core Java 11 G4 Lexer&Parser Groovy PostgreSQL 12 Gitlab CI templates 2020 - 2021**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.** Python 3 Kotlin mockk Cucumber Framework Elasticsearch **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. Kubernetes NodeJS Java 8 Kotlin Python AWS 2017 — 2018 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 Firebase Realtime Database **Technologies.** Spring Boot CloudFoundry Vue AngularJS Kotlin RabbitMQ Docker **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.** Red Hat JBoss Fuse | SwitchYard | Apache Camel | WSDL | SOAP 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.** JEE 7 JSP PrimeFaces ShellScript JMeter Vagrant **EDUCATION ♀** Lisbon Technical University of Lisbon. MS in Information Systems and Computer Engineering

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

2010 — 2013