



Alexandre de Oliveira Ribeiro

SOFTWARE DEVELOPER

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Brazilian and Swedish Citizenship

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Summary

Full stack developer with more than 15 years of experience developing Java, Python and Javascript applications, in both start-up and corporate environments. M.Sc. degree in Computer and Systems Engineering. Experience in designing and deploying large applications, from building teams and writing the first line of code to deploying projects in cloud environments.

Employment History



Ericsson

STOCKHOLM - SWEDEN

Software Developer

OCTOBER 2022 - CURRENT EMPLOYMENT

Next generation configuration management system for networks.

- Main responsible for making the transformation to cloud native for a network configuration system, including the containerization of the application and later deployment using Kubernetes and Helm charts, with all CI/CD aspects, all from scratch.
- Main responsible for CI/CD, with the creation of multiple pipelines that encompass packaging, deployment, testing, integration with other cloud native software, product lifecycle management, and use of multiple tools to ensure code quality and security.
- Co-creator of an internal framework for making cloud native applications according to Ericsson's 300+ cloud design requirements, including all Kubernetes aspects regarding deployment, networking, storage, configuration and security. Resulting applications were ready to be deployed in multiple cloud environments, with platform specific configuration for AWS, OpenShift and other types of Kubernetes clusters.
- Technology stack: Kubernetes, Helm, Docker, Gitlab, Jenkins, Python, Go Templates.

🏆 Alexandre received Ericsson's Key Contributor Award in 2023, for "phenomenal grit and dedication in building competence in the team, contributing to the product and holding the value of software quality as high as possible". Rated in the top bracket for performance in 2023.

Software Developer

KARLSKRONA, SWEDEN

MAY 2019 - SEPTEMBER 2022

Developing a large scale financial platform that supports operations to store, transfer and withdraw money used by 300 million users in several countries.

- Implementation of multithreaded fault-tolerant financial transactions with auto recovering features, with complex execution flows which span multiple systems.
- Led the development of a standalone system that provides workflow capabilities for selling products and services online. The system was created from scratch, from an idea without any code until the project was released.
- Team leader in a development team with 6+ developers.

- Acted as Build Master, being responsible for publishing all the components of the system for releases. Participated in the CI/CD team for creating the automation of this publishing process.
- Technology stack: mainly back-end Java. Using kubernetes, docker, gradle and groovy to deploy, install, upgrade services, as well as setting up and configuring multiple systems for different integration test scenarios. CI with Jenkins and Gitlab. Front-end with VueJS. Apache Kafka as message bus.

🏆 Alexandre received Ericsson's Impact Award in 2020 for the overall contribution to the product, being hand-picked for key projects and building a new team.
This award is given yearly to around 2.5% of the workforce based on performance and impact.
Rated in the top bracket for performance in 2020 and 2021.



Software Developer (Consultant at Ericsson)

AUGUST 2018 - MAY 2019

Developing a large scale financial platform that supports operations to store, transfer and withdraw money used by 300 million users in several countries.

- Implementation of multithreaded fault-tolerant financial transactions with auto recovering features, with complex execution flows which span multiple systems.
- Responsible for creating a standalone service to enable loans, transferring money and making payments. The system was created from scratch, from an idea without any code until the project was released.
- Reference developer for this service, supporting the product owner in the creation of the use cases with several failure and recovery scenarios.

Software Developer

APRIL 2018 - JULY 2018

Diverse internal projects.

Software Developer (Consultant at Ericsson)

APRIL 2017 - MARCH 2018

Developing a next generation business support system for managing revenue of mobile network operators. Responsible for designing and implementing features in a service oriented architecture, keeping track of the team's deliveries, interacting with the client and teams in other sites to ensure that all integrations work. Large scale software, constant contact with people in four different continents and multiple time zones. Integration with multiple systems with weekly release cycles.

- Team leader in a development team with 6+ developers.
- Back-end based on Java, built with OSGi (Apache Felix) and deployed on Karaf, using Maven to manage dependencies. Front-end development based on Angular. Persistence layer with Cassandra.
- Deployment and management of machines in server clusters for simulation and testing purposes.



Software Architect

JANUARY 2016 - APRIL 2017

Software Engineer

MARCH 2014 - DECEMBER 2015

Software Architect at an investment brokerage firm developing critical and fault-tolerant systems involving financial transactions. Important role acting as technical leader in a team of 10+ developers. Responsible for planning solutions, setting and enforcing code standards, both back-end and front-end.

- Led the development of a breakthrough white label platform available to 50+ commercial partners with high impact in the Brazilian financial market, from the initial planning until its deployment, with 10+ developers and 30+ people involved.
- Led the development of a REST API for this platform using Python/Django, serving content to three web applications and iOS/Android apps, including financial operations.
- Led the development of Javascript intensive single page applications using AngularJS with 200+ components and a team of 5 front-end developers.
- Created distributed services using RabbitMQ as a message broker. Solutions included a notification center with 70+ notification types, customized for each client, commercial partner and delivery channel (e-mail or SMS).
- Integrated the company's back-end software with heterogeneous third party systems using Java and Python. Activities included tax calculations, bank transactions and investments management.

IT Consultant

SEPTEMBER 2013 - FEBRUARY 2014

Worked as a consultant at Grupo Sá Cavalcante, a construction and real estate brokerage firm. Participated in the creation of the company's IT Project Management Office, supporting the definition of documents and methodologies employed during the execution of IT related projects.

- Allocated in the Business Solutions unit, Alexandre was responsible for eliciting business requirements from the marketing, commercial and finance departments.
- Duties included evaluating the main existing solutions in the market through interviews with software companies, from which reports were elaborated to assist the department managers in the decision-making process.
- Other tasks included software requirements eliciting and supporting project managers during the implementation of the proposed solutions.

Software Developer - Maintenance

AUGUST 2011 - SEPTEMBER 2013

Software Developer

NOVEMBER 2008 - JULY 2011

Intern

DECEMBER 2006 - NOVEMBER 2008

Developed enterprise software (Java/J2EE) used by 10.000+ employees in a Fortune 500 company as a contractor. Solution was based on the Enterprise Java Beans architecture with coupled back-end and front-end development.

- Developed and maintained a reporting tool in Java with 50+ reports created for decision support, including OLAP cubes.
- Supervised a team of two developers and conducted meetings with the client in order to elicit requirements and negotiate project's budget, scope and deadlines.



Inoa Sistemas

RIO DE JANEIRO - BRAZIL

Associate Developer

DECEMBER 2010 - SEPTEMBER 2013

- Developed software to manage music royalty payments for a Brazilian record label, along with its integration with their ERP. Solution was based on a JavaServer Faces architecture with coupled back-end and front-end development.
- Developed other software based on the Django and .NET frameworks, including financial systems and a white label Video On Demand platform.

SKILLS



PROGRAMMING LANGUAGES

Very proficient in **Java (9+ years)** and **Python (5+ years)**, with a deep understanding of object-oriented programming. Java was also the language of choice for my academic studies.

I also developed code in C++ (academic experience only) and C#. I have had contact with other programming languages, including Swift and Objective-C.



DEPLOYMENT

Experience working with **Docker**, **Kubernetes** and **Helm**, converting applications to be executed in containers.

Experience in creating deployment scripts in most projects I have worked with, configuring servers both on premises and using **AWS** and other **cloud services**.



CI/CD

Experience with creating and editing Continuous Integration pipelines in Jenkins and Gitlab.

Experience working in Service Oriented Architecture environments, building, deploying, testing and integrating multiple systems.



9+ years of experience with deep understanding about how **Javascript** works, with knowledge ranging from using pure Javascript to designing single page applications with 200+ components in **Angular** from scratch. Experience in developing SPAs with **VueJS**.



6+ years of experience in eliciting software requirements and finding gaps between client's needs and proposed solutions.
3+ years of experience being the person who decides what will be included in software development cycles and how much the external client will be charged for it.



Oracle, PL/SQL, SQL Server, MS Analysis Services (OLAP), NO-SQL databases, MySQL, MongoDB and general optimizations related to databases.

EDUCATION



Master's Degree (M.Sc.) in Computer and Systems Engineering

COPPE / UNIVERSIDADE FEDERAL DO RIO DE JANEIRO (UFRJ)

Top rated IT graduate program according to the Brazilian Ministry of Education out of 73 graduate programs.

Thesis: Process Mining - Discovery and Analysis of Unstructured Business Processes.

Subjects: *Data Mining, NO-SQL Databases, Image Processing, Parallel and Distributed Databases, Knowledge Management, Recommender Systems.*



Bachelor of Engineering Degree (B.E.) in Computer and Information Engineering

UNIVERSIDADE FEDERAL DO RIO DE JANEIRO (UFRJ)

Equivalent to Civilingenjör's Degree in Sweden, 5 years of study.

Subjects: *Algorithms and Programming, Programming Languages (C++), Data Structures, Advanced Programming, High Performance Computing, Machine Learning, Artificial Intelligence, Mathematical Logic, Optimization, Graph Theory, Computer Architecture, Theory of Computation, Databases (I, II), Networking (I, II), Internet and TCP/IP, Computer Graphics, Human-Machine Interaction (UX), Software Quality, Distribution and Parallelism in Databases, Distributed Systems, Parallel and Distributed Computing, Linear Algebra, Probability and Statistics, Calculus (I, II, III, IV) and more.*