Roberto Weidmann Menezes

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Skills and expertise

- Java Development
- Software Engineering
- Software Architecture

- Search Engines
- Data Pipelines
- Big Data

- Streaming Systems
- Cloud Solutions
- Agile Development

Most recent professional experiences

Senior Software Engineer
Magic Memories, Remote from Christchurch, New Zealand   09/2019 — Now

At this moment I'm working with web solutions related to our new products. As a remote team, we're focused on agile principles to deliver new features as fast as possible, heavily focused on MVPs, and continuous improvements on our features.

Our team's main focus is on developing new features to our main web platform, focused on selling and distribution of media to our customers. It is developed using a wide set of technologies related to modern web and microservices architecture. The most relevant technologies are Spring Boot, Spring Cloud, Angular, Typescript, Angular Material, MySQL, Redis, Kubernetes, and AWS.

One of the main tasks I worked on recently is prototyping image processing algorithms for automatically applying templates on guest photos, focused on improving our product quality and reducing operational costs. Also, I participated in several major changes across the whole solution, like refactoring the analytics layer on the Front End project, to improve data quality and maintainability.

Senior Software Engineer
Seequent, Christchurch, New Zealand   04/2019 — 09/2019

I was working with web solutions, on greenfield projects related to its new strategies. Our team was focused on frontend development, ensuring high-quality systems to our users and integrating them with our modeling solutions and internal APIs, developed in Python.

The most relevant project I participated in was the new user portal. It allows users to manage projects, events, and integrations related to Leapfrog. It is developed using React, Redux, Material UI, and Typescript. Other projects included shared UI components and API integrations, using a similar set of technologies. Also, they were maintained across distributed teams located in New Zealand and Canada.

Software Engineer
SLI Systems, Christchurch, New Zealand   06/2016 — 04/2019

As a member of the Indexing Team, I worked in the development and maintenance of core solutions related to Full-Text Search and its indexing process. Our team goals were to provide the best eCommerce Search solution and ensure our customers' data are correctly processed and available for search.

The most relevant project was *Dory*, the high performance Full-Text Search solution used by its clients. Its technology stack was Java 8, Apache Lucene, Apache Solr, and Grizzly. One of the most important achievements I participated in was prototyping a highly optimized Dory version for Near Real Time Indexing relying on Apache Kafka and several microservices for transforming, monitoring and inserting data to search servers.

Also, I maintained a project called *SearchBuilder*, a distributed cloud data processing pipeline responsible for consuming clients' data and transforming it into valid Search Indexes. Its technology stack was Java 8, RabbitMQ and CDH, Cloudera's distribution of Apache Hadoop.

Software Engineer
STONE, Rio de Janeiro, Brazil   01/2016 — 05/2016

As a member of the Backoffice Team, I worked in the development of public APIs, web applications and internal services. As a team, we improved our solutions in a proactive approach, as we analyzed our customers using Full Story and Intercom to improve our features. Also, we were a fast-paced agile team using Kanban, supported by Jira, and Gitflow.

The most relevant project was *Portal*, a new website where Stone clients can manage and validate their transactions. This project consisted of a UI using AngularJS, several microservices written in NodeJS and C#, and data stored on SQL Server. Before leaving the company, I developed prototypes using Redis and RethinkDB to improve overall performance.

Technical Lead	08/2012 — 12/2015
Senior Development Analyst	04/2012 — 07/2012

Cortex Intelligence, Rio de Janeiro, Brazil

As technical lead, I was responsible for technical decisions and development of Java and NodeJS scalable cloud-based platforms for data processing, including text enrichment, web crawlers, search and storage solutions. As senior development analyst, I audited the company's BI platform and developed Java crawler solutions to our customers.

My main project was *DataStore*, a data eCommerce to Cortex's BI solution to manage and process distinct data types from internal and external providers. Its main features were real-time subscription simulation, historical purchase, and real-time data distribution. It is a cloud-based platform using Amazon cloud solutions, e.g., EC2, Elastic Beanstalk, RDS and S3. Its technology stack was Java, Spring, NodeJS, AngularJS, RabbitMQ, Elasticsearch, PostgreSQL and RethinkDB.

My last project was a new cloud-based data processing pipeline to crawl and transform data to *DataStore*. Its main goal was to unify all data sources provided by Cortex Intelligence in one solution. Data pipeline was developed using Spring XD, RabbitMQ and PostgreSQL. Crawlers were developed in Python using Scrapy and custom solutions written on Java. Integration between crawlers and the data pipeline relied on AWS SQS and AWS Kinesis. Elasticsearch and Kibana were used to monitor data quality and errors.

Other previous professional experiences

Co-founder
Novo Ideal, Niterói, Brazil   80/2011 — 12/2013

Development and prototyping of web and mobile solutions using lean principles and emergent technologies as Play Framework, Google Cloud Platform and AWS.

Master's Degree Student
Fluminense Federal University, Niterói, Brazil   08/2009 — 10/2011

Research related to Software Engineering, Model-Driven Development and Metamodel's validation and verification. Participation as researcher on projects in oilfield (Schlumberger Brazil Research & Geoengineering Center) and mobile industries (APPI Tecnologia S/A).

Systems Analyst
Fluminense Federal University, Niterói, Brazil   01/2008 — 02/2010

Development of web systems in Java (JSP, JSF, JBoss Seam, Spring, JPA, Hibernate, AspectJ, Maven, Primefaces, Richfaces), PostgreSQL and Oracle Database. Team management using SCRUM.

Game Developer
Aiyra, Niterói, Brazil   10/2007 — 12/2007

Development and prototyping of mobile games in Java (J2ME).

Software Developer Intern
ADDLabs, Niterói, Brazil   10/2006 — 06/2007

Development, documentation and testing of a software suite in C++, MFC, STL, Microsoft Access and Oracle Database.

Most relevant qualifications

Coursera, Udacity and other online courses and certifications
Data Mining Specialization by Coursera	02/2015 — 10/2015
Several courses related to Big Data and Algorithms by Coursera, Udacity and Mongo University	10/2013 — Now
Sun Certified Programmer for the Java Platform, Standard Edition 6	03/2009

Fluminense Federal University, Niterói, Brazil
MSc in Computer Science with an emphasis in Software Engineering	08/2009 — 10/2011
BSc in Computer Science with an emphasis in Data Mining	08/2004 — 06/2009