



Luis Gustavo Souza

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● ABOUT MYSELF

15 years of experience in IT area, passionate about software engineering, architecture and its applicability with high quality.

Java and Python enthusiast.

● EDUCATION AND TRAINING

12/2024 – 10/2025 São Paulo, Brazil

POSTGRADUATE DEGREE IN SOFTWARE ARCHITECTURE Universidade Anhanguera São Paulo

Website <https://www.anhanguera.com>

08/2023 – 06/2024 São Paulo, Brazil

POSTGRADUATE DEGREE IN BUSINESS INTELLIGENCE, BIG DATA AND ANALYTICS Anhanguera Educacional

Website <https://www.anhanguera.com>

29/01/2013 – 28/11/2016 Franca, Brazil

BACHELOR'S DEGREE IN COMPUTER SCIENCE University of Franca

Website <https://www.unifran.edu.br>

29/01/2010 – 29/08/2011 Franca, Brazil

IT TECHNICAL COURSE Senac

Website <https://www.sp.senac.br/senac-franca>

● WORK EXPERIENCE

 **KLX – PORTUGAL**

TECHNICAL LEADER – 15/01/2023 – CURRENT

In this company there are dozens of new and legacy projects, I work in a team called Risques-Transverse, in which I support the other teams whether as a technical leader.

I started at KLX working on python projects integrated with ElasticSearch and MSSql, my role was to improve the performance of some micro-services and batches that processed a large amount of data. Using ElasticSearch, I carried out several implementations that reduced the cost of processing, making them cheaper and faster.

After that, I worked as a software engineer in different contexts, whether in the applicability of new tools, plugins and/or platforms. An example of my actions was the implementation of an integrated/automated testing tool called Cucumber, which uses Gherkin as a language and facilitates the execution of tests, I worked helping to develop solutions with Python integrated with AWS and Elasticsearch, always aiming for performance and security.

Currently, I also work as an architect on some projects within the company, helping other teams and developers to apply architectural solutions, design standards and good practices, such as SOLID and helping to support technical decisions.

Skills: Kafka · Java · Python · Flask · FastApi · Oracle · SQLServer · ElasticSearch · GitLab · Architecture ·

 **VELV – LISBON, PORTUGAL**

TECHNICAL LEADER – 21/10/2021 – 06/12/2022

In this challenge, I help the team in the development and implementation of new solutions focused on data engineering. My role is to analyze current functionality and provide solutions for performance improvements.

I worked on code analysis with the aim of providing best practices to maintain high quality, practical maintenance and performance of the designed product.

I also worked mainly on Java projects with Spring Boot, guiding the team on architecture concepts and on Python projects with Flask and FastApi.

In this project, we implemented several micro-services with Clean Architecture and/or Hexagonal architecture.

Skills: Amazon SQS · RabbitMQ · Spring Boot · Kubernetes · Java · Oracle · Linux · Git · Redis · AWS · Docker · Kafka · Spark · ElasticSearch · Architecture · Python · Flask · FastApi

EVI TECHNOLOGY – SÃO PAULO, BRAZIL

TECHNICAL LEADER – 30/11/2019 – 31/10/2021

My work at EVI was on a large project for a startup focused on transportation and logistics.

Due to team downsizing, I accepted the responsibility of leading a team of 10 people across multiple areas including data engineering, software engineering, and architecture.

In this project I worked as a Technical Leader, architect and software engineer, applying architectural concepts and best practices to projects and as a software engineer applying and developing solutions with Python.

The project's main tools were Python, ElasticSearch and the use of several solutions provided by AWS.

In this project, a great case was the implementation of the Event-Driven architecture, where we achieved an asynchronous and decoupled system.

Skills: Amazon QuickSight · Amazon S3 · Amazon SQS · Amazon Lambda · Python · Flask · FastApi · ElasticSearch · Amazon Athena · Amazon Glue · Rancher · Kubernetes · Docker · Kafka

BETTA TECNOLOGIA – SÃO PAULO, BRAZIL

SOFTWARE ENGINEER – 20/12/2016 – 30/11/2019

When I started at Betta Tecnologia, I helped in the development and maintenance of some internal projects, helping in some cases to improve performance, inclusion of new features, bug fixes, migration from a monolithic backend to microservices for greater scalability.

In my first external project, I helped the team to develop a new e-commerce project, replacing the old one that was outdated, non-scalable and did not support a large number of simultaneous accesses. For this project, we remodeled the monolithic backend for several microservices, implemented a cache service on the frontend and backend, adopted AWS cloud solutions for hosting, maintaining and managing the application. The results were very good, making e-commerce scalable and possible for more competing users, being the main e-commerce of tools for mechanics in the world.

In my second external project, I helped in the development of a backend solution for the bank credit segment, carried out through the application made available by the customers. Security, scalability and performance were the pillars of this solution, we were able to deliver a great result even with little available work time

In my last external project, I helped in the development of a new platform for the transport and logistics segment. This platform, which can be considered a BigData platform, allows the management of loads and deliveries, and its main objective is to provide analytical information to transport managers, helping them in decision making. In this way, we adopted solutions that allowed the greatest possible performance gain, that allowed us to generate data with the lowest cost and with less time. In addition, I helped in the process of creating the mobile application that was made available for drivers to register for available freight.

Skills: Python · Flask · ElasticSearch · Flutter · BigData · React · Aws · Java · SpringBoot · Redis · Php · Laravel · Jenkins · MSSQL · Ionic · Angular · Oracle · MySQL.

CRUZEIRO DO SUL UNIVERSITY – FRANCA, BRAZIL

SOFTWARE ENGINEER – 01/07/2014 – 31/12/2016

I helped in the development of new solutions in Java and SpringBoot, and in the maintenance of old systems.

Skills: RabbitMQ · Spring Boot · Kubernetes · Java · Java SE · Java Enterprise Edition · PL/SQL · JSF · PHP · Oracle · jQuery · Hibernate · JavaScript · Linux · Spring Framework · Git · JQuery · Scrum

 **AMAZONAS PRODUCTS FOR SHOES** – FRANCA, BRAZIL

JAVA DEVELOPER – 30/09/2012 – 30/06/2014

In this work I worked as a Java developer, helping to implement new solutions in a new web project that aimed to provide its users with tools for managing sales and issuing invoices.

Skills: Oracle · ADF · Weblogic · Oracle11 · Java

 **MARIO ROBERTO GAS STATION** – FRANCA, BRAZIL

SUPPORT ANALYST – 30/06/2010 – 30/09/2012

- Maintenance in PDV systems

● **LANGUAGE SKILLS**

Mother tongue(s): **PORTUGUESE**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

● **PUBLICATIONS**

2024

[**Applying Clean Architecture in Java with Spring Boot**](#)

Series of 4 articles where I cover the implementation of Clean Architecture in a Spring Boot project with Java with practical examples.

2024

[**Introduction to Event-Driven Architecture**](#)

Article in which I address the topic of introducing Event Driven Architecture, with an emphasis on the use of Apache Kafka.

2024

[**Apache Kafka Patterns**](#)

In this article I cover some patters that I have already used and that I think are the most important when working with Apache Kafka.

2024

[**SQS vs MSK**](#)

Article published on Medium where I describe in great detail which messaging service we should choose and when, SQS or MSK?

2015

[**Developing web applications with JSF, MongoDB and JasperReports**](#)

Work published in Java Magazine, issue 143. Demonstration of the development of a JSF application with primefaces, using a non-relational database (MongoDB) to store information. In addition, it describes how to use JasperReports for custom reporting.

2014

[Developing applications with Play! Framework](#)

Work published in Easy Java Magazine, issue 45. Describes and demonstrates in an example the development of a chat with Play! Framework used to develop Java applications with greater practicality.

2014

[JSch: Developing applications with Java Secure Channel](#)

Work published in Easy Java Magazine, issue 39. Describes and demonstrates in a practical example the JSch tool used to transfer files in remote directories quickly and safely, using the JSF and PrimeFaces components together.