

# Fernando Romulo da Silva

---

Software Engineer | Java | JEE | Spring Framework | Docker | K8s | SQL | JavaScript | React

## LOCATION

---

**Address:** Cedo Feita, Porto - Portugal

**Personal Page:** <https://fernando-romulo-silva.github.io/personal-page/>

**Cell Phone:** +351 914-090-874

**E-mail:** [fernando.romulo.silva@gmail.com](mailto:fernando.romulo.silva@gmail.com)

**Relocation:** Canada, EUA, Ireland and Australia

## PROFESSIONAL SUMMARY

---

I am a senior full-stack certified software engineer, highly motivated by new Java platform technologies. Although my primary qualifications are Java back-end and SQL databases, I have also worked with JavaScript front-end and NoSQL databases.

I have experience in analysis, design, coding, testing (automated and manual), and delivering applications like REST and SOAP web services, web applications, batch jobs, web crawlers, and desktop applications.

During my more than 15 years of experience, I have worked in a few business sectors like ERP, content management systems, employee benefits solutions, insurance provider solutions, credit reporting agencies (credit bureau), and financial solutions.

## WORK HISTORY

---

- **Java Software Engineer, 04/2022**

**Dalenys** – Porto – Portugal

I develop and maintain cloud-native marketplace applications using Java, Spring Boot, RabbitMQ, GCP, JavaScript, React, MongoDB and MySQL. I am well-versed in troubleshooting and resolving complex technical problems, and I am confident in my ability to identify and solve complex software issues.

- **Java Software Engineer, 12/2019 to 03/2022**

**Boa Vista SCPC** – Barueri, SP – Brazil

I developed cloud-native credit bureau applications using Spring Boot, Docker, Kubernetes, GCP, Google Pub/Sub, Redis, PostgreSQL, and MySQL Database Server. I improved Java applications by leveraging innovative Docker and Spring technologies to enhance performance and reliability.

- **Java Software Engineer, 04/2015 to 12/2019**

**Fleetcor VB Serviços** – São Paulo, SP – Brazil

I developed web crawlers and employee benefits solutions using Java, JSoup, HtmlUnit, Spring, JAX-WS, JAX-RS, JBoss, Wildfly, Jetty, Tomcat, and Oracle Database Server. To increase performance on web navigation, I utilized multi-thread processing. Additionally, I designed and implemented several other features including authentication, session management, and error-handling.

- **Java Developer, 06/2014 to 04/2015**

**BNP Paribas Cardif** – São Paulo, SP – Brazil

I developed and maintained Java applications for insurance providers, utilizing Java, Spring, Web Services SOAP, Tomcat, Jetty, and SQL Server. Additionally, I have revamped various applications developed on Java core, leveraging the Spring framework for improved efficiency and functionality.

- **Java Developer, 09/2009 to 12/2013**

**VB Serviços** – São Paulo, SP – Brazil

As a Java Developer, I worked extensively with employee benefits software solutions utilizing Java Enterprise Edition (JSF, EJB, CDI, JSP, Servlet, JMS, JAX-WS, and JAX-RS), Oracle Database Server, and Wildfly servers. I developed comprehensive back-end software, batch applications, and front-end pages server-side.

- **Java Developer, 04/2008 to 08/2009**

**Vetor Web – Negócios na Internet** – São Paulo, SP – Brazil

I developed innovative interfaces for content management systems with advanced features using JavaScript, Java, JQuery, JSP, JSF, Spring, Tomcat, and MySQL.

- **Delphi and SQL Developer, 04/2007 to 04/2008**

**DB1 Informática Software e Consultoria** – Maringá, Paraná – Brazil

I was a Delphi and Oracle SQL developer working on various ERP projects and had extensive experience creating and maintaining applications for medium to large wholesale companies.

## EDUCATION

---

- **Postgraduate Degree – Software Engineering Specialization**, 03/2018 – 12/2020  
Pontifícia Universidade Católica de São Paulo  
Specialization course with emphasis on software development and engineering using new technologies.
- **Technical Course – W1 Advanced Web Interface Development**, 02/2014 to 03/2014  
Global Code – São Paulo, SP – Brazil  
Coursework to learn web technologies like HTML5, XPath, JPath, Javascript, and JQuery.
- **Technical Course – Java Web Development**, 06/2009 to 09/2009  
Caelum – São Paulo, SP – Brazil  
Coursework for learning Java Web technologies, JSP, Servlet, Struts, and JSF.
- **Bachelor of Science – Computer Science**, 03/2004 to 12/2006  
UNOESTE – Presidente Prudente – SP Brazil  
Computer science major with emphasis on math, computer system knowledge, programming, developing computer tools, and software design.

## CERTIFICATIONS

---

- Oracle Java EE 7 Application Developer
- Oracle Java SE 8 Programmer
- Oracle Certified Master, Java SE 6 Developer
- Sun Certified Java Programmer 5

## SKILLS

---

- **Languages:** I am a native Portuguese speaker and an upper intermediate English speaker.
- **Project Management:**
  - ◆ **Frameworks:** Scrum (daily meeting, task breakdown, grooming, planning)
  - ◆ **Software:** Jira, Kanbanize, Microsoft Team Foundation and Redmine.
- **Java:**
  - ◆ **Versions:** JDK5 until JDK17, GraalVm, DCEVM and HotSwapAgent.
  - ◆ **Libraries:** JUnit, TestNG, AssertJ, Mockito, HtmlUnit, JSoup, ApacheUtils, OpenAPI, OpenFeign, QueryDSL, Guava, etc.
  - ◆ **Tools:** Ant, Maven, Spotbugs, PMD, Checkstyle and Gradle.
  - ◆ **Frameworks:**
    - Spring: Spring Framework, Spring Boot, Spring Security, Spring Data, Spring Batch and Spring MVC.
    - JEE: JSF, EJB, JTA, JPA, CDI, JAX-WS, JAX-RS, JMS, batch Processing, etc.
    - Others: Swing, Quarkus and Hibernate.
- **Version Control:** Git, Github, Bitbucket and Gitlab.
- **Java Script:**
  - ◆ **Version:** JavaScript ES6.
  - ◆ **Libraries:** React, Lodash, Axios, Jest and JQuery.
  - ◆ **Tools:** JSLint, Npm, Yarn, Webpack.
- **IDES:** Eclipse, Dbeaver and Visual Studio Code.
- **Data Bases:**
  - ◆ **SQL:** Oracle, PostgreSQL, SQL Server and MySQL.
  - ◆ **NoSQL:** MongoDB and Redis.
- **Servers:** Wildfly, Glassfish, Tomcat, and Jetty.
- **Infrastructure:** Virtual Box, Docker, Docker Compose, and Kubernetes.

- **Messaging:** JMS (ActiveMQ Artemis), Google Pub/Sub and RabbitMQ.
- **Cloud:** Google Cloud Platform (GCP).
- **Operation Systems:** Windows desktop (all flavors) and Ubuntu Linux.
- **Others:** SOLID, Object Oriented Design, Domain Driven Design, UML, TDD and Design Patterns.

## RECENT PROJECTS

---

**Company:** Dalenys

**Project :** Frontend Data Lake (New features)

**Stack:** JavaScript ES6, TypeScript, React 18, Axios, Jest, Yarn, ESLint

**Role:** Senior Software Engineer

**Description:** This a front-end application for the next project described. On this application, I fixed and updated pages.

- Steps:**
- Updated functions and layouts
  - Update/create configs files
  - Update the readme.md file

---

**Company:** Dalenys

**Project :** API for Data Lake (New features)

**Stack:** Java 17, Spring Boot 3.0, JUnit, AssertJ, MongoDB, RabbitMQ, Docker, Kubernetes and GCP

**Role:** Senior Software Engineer

**Description:** This API create scheduled reports that read data from a big data structure expose its results on line. I intensively used automated tests to guarantee the quality of its development.

- Steps:**
- Create domains classes and tests
  - Update/create services classes and tests
  - Update/create endpoint classes and tests
  - Update/create OpenAPI (Swagger) documentation
  - Update the readme.md file

---

**Company:** Boa Vista SCPC

**Project :** API for Layouts (New Project)

**Stack:** Java 11, Spring Boot 2.5, Spring Security, JUnit, AssertJ, MySQL, Docker, Kubernetes and GCP

**Role:** Senior Software Engineer

**Description:** This API provides file layouts on JSON and XML formats. These file layouts are used on batch processing on GCP. Due to layouts having to follow strict rules, the application has to validate a lot of situations; I used automated tests like unit (TDD), integration, and acceptance tests (Spring Mock MVC) to solve this problem.

- Steps:**
- Create domains classes and tests
  - Create services classes and tests
  - Create endpoint classes and tests
  - Create OpenAPI (Swagger) documentation
  - Create the readme.md file
  - Create Dockerfile with security and performance
  - Create Kubernetes yml files (service, deployment, customization)

---

**Company:** Boa Vista SCPC

**Project:** Batch Processing For Debts (New Project)

**Stack:** Java 11, Spring Boot 2.5, Spring Batch, JUnit, AssertJ, PostgreSQL, Redis, Docker, Kubernetes and GCP

**Role:** Senior Software Engineer

**Description:** This is a batch application that reads some specific files, usually 10GB, treats and stores the data (credit score) on a Redis Hashes. The business rules were simple, but some analysis had to be done.

**Steps:**

- Create domains classes and tests
- Create services classes and tests
- Create batch classes and tests
- Create the readme.md file
- Create Dockerfile with security and performance
- Create Kubernetes yml files (service, cron job, kustomization)

---

**Company:** Fleetcor VB Serviços

**Project:** Benefits buyer (Maintenance)

**Stack:** Java 11, Wildfly, JEE, Spring Boot, OracleSQL, Docker

**Role:** Senior Software Engineer

**Description:** An upgrade for a web application, a web crawler. This project was a transforming monolithic architecture towards micro service architecture. Only modules that made sense.

**Steps:**

- Update domains classes
- Update services classes
- Create documentation
- Create automated tests

---

**Company:** Fleetcor VB Serviços

**Project:** Communication Service (New Project)

**Stack:** Java 11, JMS, Spring Boot, MongoDB, Docker

**Role:** Senior Software Engineer

**Description:** This application is a communication broker for other applications. Its responsibility is to send emails, SMS, etc, and manage the messages. It works as messaging consumer and API.

**Steps:**

- Create domains classes and tests
- Create services classes and tests
- Create endpoint classes and tests
- Create OpenAPI (Swagger) documentation
- Create the readme.md file
- Create Dockerfile with security and performance
- Create Kubernetes yml files (service, deployment, kustomization)