

Giovanni Rosa da Silva

Brazilian, single, 29 years old
Rua João de Barro, 339
Jardim Dourado – Porto Belo – SC – Brazil
Tel. +55 (41) 99610-1950
E-mail: giovanni_rosa4@hotmail.com
Website: <http://www.inf.ufpr.br/grsilva/>

OBJECTIVE

- Participate in interesting projects involving modern technologies, such as the Internet of Things (IoT). Lead the team as a technical reference. Contribute ideas to improve the project's technology and architecture.

ACADEMIC EDUCATION

- Graduation in Computer Science - UFPR - 2014-2019
- Master in Networks and Distributed Systems at NR2 - UFPR - 2020-2023

PROFESSIONAL EXPERIENCE

- **CI&T Technologies - March 2015 until December 2022**

Mar 2015 - Dec 2018, 3 years and 9 months

Position: Intern & Junior Developer.

Main activities: international project to develop and maintain a desktop application Airfare Insight for aviation price control for SITA, using **Java** with Swing UI, Weblogic, and **Oracle** database.

Dec 2018 - Oct 2019, 11 months

Position: FullStack Developer.

Main activities: international project to develop a web application for battery factory control for Imprint Energy, using **React** with Material on the frontend and **Python** with Django REST Framework on the backend.

Oct 2019 - Dec 2019, 3 months

Position: Frontend Developer.

Main activities: national project to develop a web application for car dealerships for RCI Bank (Renault), using **Angular** with Material on the frontend.

Dec 2019 - Jan 2020, 2 months

Position: Frontend Developer.

Main activities: international project to modernize the existing Syscon Opus Suite desktop application to a new web application, using **Vue.js** with Vuetify on the frontend.

Jan 2020 - Jul 2020, 7 months

Position: Frontend Developer.

Main activities: national project to develop the Tudobem web and mobile application to be a health platform for COMPAR, using **React** with Material on the frontend and **React Native** on the mobile.

Jul 2020 - May 2021, 11 months

Position: FullStack Developer.

Main activities: national project to develop the SASWeb 2 web application for fleet management and monitoring for SASCAR, using **AngularJS** with Material on the frontend and **Java** with Spring Boot on the backend.

Brazil
2025

May 2021 - Jun 2021, 1 month.

Position: FullStack Developer.

Main activities: international project to develop the AI Backoffice web application for resolving invoice mismatches for Schneider, using **React** with Material on the frontend and **Python** with Django REST Framework on the backend.

Jun 2021 - Jul 2022.

Position: FullStack Developer.

Main activities: international project to develop the CAT-APM web application to manage IoT devices for Corvalent, using **React** on the frontend and the **ClearBlade** platform as the low-code backend based on **NodeJS**.

Aug 2022 - Dec 2022.

Position: FullStack Developer.

Main activities: international project to develop the connectMLS web application to provide real estate listings to US realtors for dynaConnections, using **React** on the frontend and **Java** on the backend. I presented a modernization plan to migrate old screens from **AngularJS** to **React**, **Java** to **Spring Boot**, and other modern good practices.

- **GRDS IT Services - December 2022 until now**

Dec 2022 - now.

Position: FullStack Developer.

Main activities: leading the development of two international web applications for IoT device management. One is built with **React (Next.js)** and **Node.js**, integrated with **MQTT** and **InfluxDB**, deployed on **AWS** and **Azure**. The other is built with **React** and **SST (Node.js)**, integrated with **MQTT**, **IoT Core**, **Kinesis**, **Lambda**, **Aurora**, **AppSync**, **Athena**, **S3**, **API Gateway**, **Cognito**, and deployed on **AWS** with **Amplify**.

LANGUAGE

- English - Proficient (Influx, 3 years, completed in 2014).
- Experience abroad - English course in Manchester (UK) for 1 month in 2015.
- Test of English for International Communication (TOEIC), 2014 – grade 975/990.
- Test of English as a Foreign Language (TOEFL), 2016 – grade 580/677.

QUALIFICATIONS AND COMPLEMENTARY ACTIVITIES

- Oracle Certified Associate Java SE 8 Programmer I, 2016.
- Oracle Certified Professional Java SE 8 Programmer II, 2017.
- Advanced knowledge in Java, C, React, MQTT, and ES6.
- Intermediate knowledge of AWS, Azure, MySQL, PostgreSQL, Python 3+, AngularJS, Angular 2+, Vue.js, React Native, NextJS, Spring Boot, Git, Scrum, JIRA, and NodeJS.
- Basic knowledge of HTML, CSS, XML, JSON, MongoDB, Google Cloud, Docker, and C++.

PUBLISHED PAPERS

- [Zero Trust Access Control with Context-Aware and Behavior-Based Continuous Authentication for Smart Homes | Anais do Simpósio Brasileiro de Segurança da Informação e de Sistemas Computacionais \(SBSeg\)](#)
- [Adaptive Access Control for Smart Homes Supported by Zero Trust for User Actions | IEEE Transactions on Network and Service Management](#)

PERSONAL PROJECTS

- WorkflowManager [2016 - 2017]: I developed a system to assist in upgrading and implementing the international project SITA - Airfare Insight, where the MySQL database is powered by Excel spreadsheets, transforming them into JSON.
- Dionysus [2017 - 2018]: I developed this inventory and sales control system for a bar. I used Java 8 and JavaFX, which were my most advanced knowledge at the time, being a desktop application integrated with an API of the EPSON TM-T20 laser printer.
- Database Packager [2018]: I developed a system to extract files from an SVN repository, present them in a friendly interface and export them in a compressed form in .zip.
- Mercurius [2018 - unfinished]: I started to develop a system for complete control of a trade, including its customers, services, stock, calendar, and cashier for a salon. I used Spring Boot on the backend and Angular 6 on the frontend, a responsive web application that can be accessed on any device.
- <https://github.com/giovannirosa>: I keep almost all of my academic activities in this repository on GitHub. Among them, I highlight:
 - the implementation of a Superpipeline using VHDL;
 - resolution of linear systems using conjugated gradient method optimized and implemented in C;
 - construction and testing of the UFPR Informatics Department network using Mininet and Python;
 - graph implementation and resolution of the minimum color problem in C;
 - algorithm for congestion control of a UDP network in C++.

GREATEST INTERESTS

- IoT - Internet of Things: my most significant interest is Computing because, in my view, the future will depend on how the various products will interact with the Internet, using the information to have a significant impact on people's daily lives.
- Augmented Reality: is another critical area that will develop more and more as technology advances. It should also impact people's routines; it will be key for the big cities of the future.
- Machine Learning: considering the amount of data people generate today, their analysis and processing are becoming increasingly important for commercial and social purposes.
- Blockchain: this innovative technology is the next level for secure and resilient contracts with less bureaucracy through a decentralized and more efficient system.
- Crypto Coins: it is not clear what the role of these new currencies will be in the future, but their concept is very innovative and helps society not to depend on monetary policies centralized in the figure of a State.