# **GUILHERME I. GONÇALVES**

## Senior Full-Stack Engineer

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Nova Friburgo, Brazil ves Si guilherme.i.g.



## **EXPERIENCE**

## Senior Software Engineer Consultant & Senior Full-stack Engineer

### **PrimeIT**

Feb 2022 - Present

**♀** Remote

- Worked as a software development consultant for a multinational Softwareas-a-Service (SaaS) company developing cloud-based tools and services for website governance and optimization.
- Developed Back-ends using C# + .NET and NodeJS and Front-ends using React JS, operating in a cloud-driven and micro-services architecture.
- Developed a ReactJS Design System focused on accessibility, following the Web Accessibility Initiative – Accessible Rich Internet Applications (WAI-ARIA) standards.
- Responsibilities included developing tasks, participating in international meetings to refine tasks and planning Sprints following the SCRUM framework
- Implemented key features such as a fully accessible design system (components like form controls, dropdowns, data visualization, charts), data export system, subsystem to track and measure design system adoption, etc.

# Technical Lead & Senior Full-stack Engineer O2 Filmes

m Sept 2018 - Jan 2022

Remote & São Paulo, Brazil

- Developed a robust and online text editor and project manager system dedicated to screenwriters.
- Developed its Back-end using Rails + MongoDB + Node.js and its Front-end using React JS + Etherpad, operating in a cloud-driven and micro-services architecture written with Terraform using Docker containers running on Amazon ECS clusters.
- Responsibilities included all development tasks (create code, test, automate
  deployments, etc.), training new developers, discussing the next A/B tests to
  be run, and listing/detailing/prioritizing the stories to be played.
- Implemented features such as multi-user tracking, data visualization with D3, notifications, importing, parsing and exporting files, advanced graphical interface features, etc.

# Software Engineer & Scientific Researcher CERN - European Organization for Nuclear Research

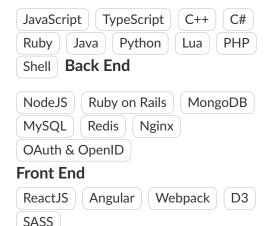
Mar 2019 - Mar 2020

♀ Geneva, Switzerland

- Designed and developed an energy estimation algorithm for the ATLAS Tile Calorimeter.
- The tool is based on **machine learning** techniques and was developed using **C++** in a world-wide **distributed system**.
- Created a pulse generator used to simulate electronic readouts for data processing and physics analysis.

## **SKILLS**

## **Programming Languages**



### **DevOps**

Docker Terraform AWS ECS
Kubernetes

## Miscellaneous Skills



## **EDUCATION**

# Ph.D., Computational Modelling Rio de Janeiro State University

Mar 2021 - Ongoing

Master's degree, Computational Modelling

#### Rio de Janeiro State University

m Jan 2018 - Apr 2020

Bachelor's degree, Computer Engineering

## Rio de Janeiro State University

## **LANGUAGES**

Portuguese English French Spanish



## **EXPERIENCE**

# Full-stack Developer & Software Engineer

### **DataHex Computer Technology**

May 2016 - Jun 2018

- Nova Friburgo, Brazil
- Developed and Designed an Event Ticket application for **Android** with data synchronization and Bluetooth printer.
- Developed and Designed a cloud-based Point of Sale system with business management features.
- Developed its Back-end using NodeJS and its Front-end using AngularJS following the micro-services approach.
- Developed a desktop application using **Electron** with data synchronization across the internet and among multiple local network nodes (using P2P).
- Developed an industry-standard authentication system implementing the OAuth 2.0 and OpenID Connect protocols.

## Full-stack Developer & Mobile Developer

### Vista Group Network

m Jun 2014 - Apr 2016

♥ Nova Friburgo, Brazil

- Developed a cloud-managed parking software using Android devices for ticketing and infringement monitoring.
- Developed an iOS and Android application for parking tickets purchase using lonic and VB-Net.
- Created software to detect free parking spaces using image processing from surveillance cameras. The tool was developed using Python and Open-CV.

## **OPEN SOURCE CONTRIBUTIONS**

## Etherpad

#### A real-time collaborative editor for the web

% https://github.com/ether/etherpad-lite/commits?author=ingoncalves

#### **Athena**

### The ATLAS Experiment's main offline software

% https://gitlab.cern.ch/atlas/athena/-/merge\_requests?state=all&author\_username=ginaciog

### Scilab

#### Free and Open Source software for numerical computation

% https://github.com/scilab/scilab/commits?author=ingoncalves

# **PUBLICATIONS**

## Journal Articles

- Gonçalves, Guilherme Inácio, Bernardo Sotto-Maior Peralva, et al. (2022). "Performance of Optimal Linear Filtering Methods for Signal Estimation in High-Energy Calorimetry". In: *Journal of Control*, Automation and Electrical Systems 33.5, pp. 1601–1611.
- Gonçalves, Guilherme Inácio, Juan Lieber Marin, et al. (2020). "Performance Evaluation of Energy Reconstruction Methods in High Energy Physics Experiments". In: Revista Mundi Engenharia, Tecnologia e Gestão (ISSN: 2525-4782) 5.2.

## REFEREES

#### **Joas Souza**

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- São Paulo, Brazil

#### Luiza Pagliari

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- São Paulo, Brazil

## **ACHIEVEMENTS**



# Cum Laude Honors - Rio de Janeiro State University

Academic honors awarded due to the high average grade.



**DELF B2 – République Française**Diploma granted by the French Ministry of National Education that certifies French skills at B2 level.