GUILHERME I. GONÇALVES

Senior Full-Stack Engineer

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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 frame-
- 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

Mark 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

C# JavaScript TypeScript C++ Ruby Python PHP Lua Shell

Back End

NodeJS Ruby on Rails MongoDB MySQL Redis **Nginx** OAuth & OpenID

Front End

ReactJS **Angular** Webpack D3 **SASS**

DevOps

Docker **Terraform AWS** ECS **Kubernetes**

Miscellaneous Skills

Test-Driven-Development Mobilde Development **SCRUM** Agile development Signal Processing Machine Learning **Cloud Computing**

EDUCATION

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

Mar 2021 - Ongoing

Master's degree, Computational Modelling

Rio de Janeiro State University

Jan 2018 - Apr 2020

Bachelor's degree, Computer Engineering

Rio de Janeiro State University

m Jan 2012 - Aug 2017

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

- @ joassouzasantos@gmail.com
- São Paulo, Brazil

Luiza Pagliari

- @ lpagliari@gmail.com
- São Paulo, Brazil

ACHIEVEMENTS



Cum Laude Honors - Rio de Janeiro State University

Academic honors awarded due to the high average grade.



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