GUILHERME GONÇALVES

Senior Full-Stack Engineer

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Nova Friburgo, Brazil ves guilherme.i.g.



EXPERIENCE

Senior Software Engineer Consultant & Senior Full-stack Engineer

PrimeIT

Feb 2022 - Present

Remote & Porto, Portugal

- 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

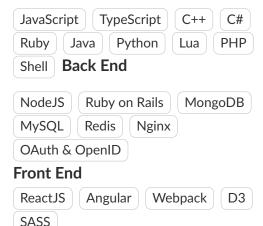
Mar 2019 - Mar 2020

♀ 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

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

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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.