







Emmanuel Argollo

Fullstack Developer

 17 December 1992
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Work Skills

Languages

Javascript
C++
Java
PHP
Python

Frameworks

Node.js
Express
React
React Native
Angular
Electron
WebRTC
Socket.io
Laravel

Tools

Git
MongoDB
MySQL
AWS
Docker

Language Skills

Portuguese
Native

English
Common European Framework C2

Experience

Horizon - Comunicação e Interatividade

Salvador - Brazil

Fullstack developer - Node.js, React, Electron, MongoDB, AWS

Jan. 2018 - Present

Development of a platform for online audio chatting and recording, along with a sound editing tool.

- Implemented the chat rooms using WebRTC allowing multiple users to be connected through a Selective Forward Unit.
- Configured a media server to handle media forwarding and recording of each of the user's audio.
- Deployed both the Node.js application server and the Kurento media server to AWS's EC2.
- Developed an audio editor for the desktop platform on electron using the Web Audio API.

Software developer intern - Android, Angular, Laravel, MySQL

Aug. 2017 - Dec. 2017

Development of an Android app paired up with a management web solution using a RESTful API.

- Developed a mobile application to be used by health agents while checking homes for endemic diseases.
- Implemented a REST API with laravel to allow the mobile application to send data to the server whenever the user had internet connection.
- Created a custom report tool that allowed the management to cross any kind of data from the database into a report.
- Met with clients to determine what kind of system they needed and designed it accordingly.

BahiaRT

Salvador - Brazil

Bahia Robotics Team

Jun. 2011 - Aug. 2014

Research developer intern - C++, SciLab, Java

Oct. 2015 - Jul. 2017

Development of the BahiaRT, a multi-agent AI soccer team for Robocup's 3D simulation league.

- Developed and implemented a humanoid running engine based on the Spring-Mass mathematical model.
- Created an automated tool for parallel optimization using CMA-ES and Open-MPI facilitating the improvement of many of the agent's motor skills.
- Optimized the agent's walking engine using an evolutionary algorithm resulting in an improvement of its speed by 18%

CLaC

Computational Linguistics at Concordia

Montreal - Canada

Research assistant intern - Python, WEKA

Jan. 2015 - Aug. 2015

Assisted on the research of the relation between discourse markers and textual genres.

- Developed a web crawler to gather data samples from different websites to be used in the research.
- Optimized parsing time by implementing a parallel tool to parse multiple files at once.

Education

BSc., Information Systems

State University of Bahia

Salvador - Brazil

2011 - 2018

BSc., Computer Science

Exchange student - Concordia University

Montreal, Canada

2014 - 2015