Breno Lima de Freitas

Personal Data

Date of Birth: 12 August, 1993
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Work Experience

Feb 2017 — Aug 2016

Contartec Smart Solutions
Software Engineer
CAMPINAS, BRAZIL

Development of the backend for a counting system with high-availability and stress requirements with NodeJS and a data visualization system with AngularJS based on Google Maps using real-time features with SocketIO. Created an endpoint using CherryPy for a variation of a classical clustering algorithm using Graph Theory concepts.

Aug 2016 — Aug 2015

World Tech Makers
Software Engineer
REMOTE

Responsible for the overall management of the company's projects. Development of backend in Ruby on Rails and NodeJS and also on frontend using AngularJS. Created an endpoint using CherryPy for machine learning algorithms and browser games using PhaserJS. Also helped on the project management and hiring processes.

Jun 2015 — Apr 2015

Codeminer 42
Intern
SOROCABA, BRAZIL

Development focused on backend on a big e-commerce project using Ruby on Rails. I was responsible for many changes the client asked for and one of the main developers on the project at the end, working also on some frontend using AngularJS.

Aug 2014 — May 2014

University of Waterloo
Undergraduate Research Assistant
WATERLOO, CANADA

Tutte conjectured that every graph free of 1-cuts and Petersen minors admits a 4-flow. A snark is a cubic graph which does not have a 4-flow. In this project, we searched for non-cubic graphs that do not admit a 4-flow and extended the properties known for snarks to non-cubic graphs. We also developed a computer program to test whether or not a graph admits a 4-flow.

Jan 2011 — Aug 2010

Madricomp
Web Application Developer
INDAIATUBA, BRAZIL

Development of backend and frontend of many applications using vanilla PHP and JavaScript. Created a very simple variation of jQuery from scratch.

Education

CURRENT FEB 2016	Master of Science in Computer Science **Federal University of São Carlos**, Sorocaba, Brazil Major: Machine Learning Thesis: "A Classification Method Based On The Minimum Description Length Principle" Advisor: PROF. TIAGO AGOSTINHO DE ALMEIDA GPA: 4/4
JUL 2015 JAN 2011	Bachelor of Science in Computer Science **Federal University of São Carlos**, Sorocaba, Brazil Major: Computer Science Thesis: "Flow-Critical Snarks" Advisor: PROF. CÂNDIDA NUNES DA SILVA GPA: 3.5/4
DEC 2014 JAN 2014	Exchange Programme **University of Toronto**, Toronto, Canada GPA: 3.3/4

Honours and Awards

JUL 2015	**Brazilian Computing Society undergraduate thesis contest** First place with the paper "A Study of Critical Snarks"
OCT 2013	**ACM International Collegiate Programming Contest** Second place on the regional phase
DEC 2015	**Honourable mention on contribution to innovation** Development of the university's intellectual property
DEC 2015	**Honourable mention on academic research**

Languages

PORTUGUESE:	Mothertongue
ENGLISH:	Fluent
SPANISH:	Limited working proficiency

Computer Skills

Basic Knowledge:	PHP, R, Django, Haskell, MySQL
Intermediate Knowledge:	Java, Python, Numpy, Pandas, Scikit Learn, C/C++, Ruby on Rails
Advanced Knowledge:	JavaScript, AngularJS, SASS, PostgreSQL, Redis, SocketIO, Mocha, UNIX environments

Theoretical Skills

Machine Learning, Graph Theory, Data Warehousing, Human-Computer Interface