Breno Lima de Freitas

Personal Data

Date of Birth:	12 August, 1993
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Work Experience

Current
Apr 2017

Shopify
Front End Developer
Ottawa, Canada

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   Master of Science in Computer Science
FEB 2016   **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   Bachelor of Science in Computer Science
JAN 2011   **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   Exchange Programme
JAN 2014   **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