Breno Lima de Freitas

Personal Data

Date of Birth: August 12^{th}, 1993
Phone: +1 (613) 255-4901
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Work Experience

Current – Nov 2017 | Shopify
Data Analyst
Ottawa, Canada
Development of models in Capital and Order Fraud analysis using Python and Apache Spark.

Oct 2017 – Apr 2017 | Shopify
Front End Developer
Ottawa, Canada
Responsible for the implementation of many features related to the Admin part of the merchant solution.

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.

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 — **First place on the XXXIV SBC's undergraduate thesis contest**
First place with the paper "A Study of Critical Snarks"

Oct 2013 — **Honourable mention on the International Collegiate Programming Contest**
Second place on the regional phase

Dec 2015 — **Honourable mention on contribution to innovation**
Participation and development of the project entitled "Visual Coordination System"

Dec 2015 — **Honourable mention on academic research**
Recognition for the first prize on Brazilian Computing Society (SBC) contest

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