

Breno LIMA DE FREITAS

PERSONAL DATA

DATE OF BIRTH: 12 August, 1993
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WORK EXPERIENCE

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| FEB 2017 AUG 2016 | Contartec Smart Solutions <i>Software Engineer</i> 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. |
| Aug 2016 AUG 2015 | World Tech Makers <i>Software Engineer</i> 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 <i>Intern</i> 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 <i>Undergraduate Research Assistant</i> 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 <i>Web Application Developer</i> 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