

# Breno LIMA DE FREITAS

## PERSONAL DATA

---

DATE OF BIRTH: August 12<sup>th</sup>, 1993  
PHONE: +1 (613) 255-4901  
EMAIL: [breno@breno.io](mailto:breno@breno.io)

## WORK EXPERIENCE

---

CURRENT	Shopify
NOV 2017	<i>Data Scientist</i> OTTAWA, CANADA Development of models and reports on Shopify Capital using Python and Apache Spark.
OCT 2017	Shopify
APR 2017	<i>Front End Developer</i> OTTAWA, CANADA Responsible for the implementation of many features related to the Admin part of the merchant solution.
FEB 2017	Contartec Smart Solutions
AUG 2016	<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. Created an endpoint using CherryPy for a variation of a classical clustering algorithm using Graph Theory concepts.
Aug 2016	World Tech Makers
AUG 2015	<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	Codeminor 42
APR 2015	<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	University of Waterloo
MAY 2014	<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.

## EDUCATION

---

- DEC 2017 Master of Science in Computer Science  
FEB 2016 **Federal University of São Carlos**, Sorocaba, Brazil  
Major: Machine Learning  
Thesis: "Gaussian Mixture Descriptors Learner"  
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