LUISA ROJAS GARCIA

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Computer Scientist

Enthusiastic and relentless Computer Scientist in the lookout for opportunities and good problems to solve. As a second-year master's student, my research interest currently lies in automatic fault localization in concurrent programs.

EDUCATION

- Master's (MSc. Computer Science)
 University of Ontario Institute of Technology
- September 2017 August 2019 (expected)
- Bachelor (BSc. Computer Science)
 University of Ontario Institute of Technology

September 2013 - April 2017

SKILLS

Java
JavaScript
Keras
MongoDB
NodeJS
Neo4J

Python
Scala
SQL
Tensorflow
TXL

PROJECTS

Automatic Localization of Concurrent Faults

April 2018 - Present

As part of my master's thesis research, I am developing a tool that can automatically localize concurrency bugs given a unit of source code and a set of tests. To achieve this, different sections of the given program are noised; then, the scope is narrowed down using a binary-search approach.

Distracted Driver Detection

December 2017

Using a Convoluted Neural Network and transfer learning, we were able to build a model that could successfully predict if the individual in an image is driving responsibly or if they are distracted.

Threaded Paws

October 2016 - October 2017

As part of my undergraduate thesis project, I designed and developed a serious game that can assist students in learning different concurrency concepts. Threaded Paws is the first educational game targeting concurrency that we are aware of.

Parallel Genetic Algorithms

April 2017

A sample program implementing a genetic algorithm was altered and significantly optimized by parallelizing its crossover and parent-selection processes. Then, run times between sequential and parallelized versions were recorded and compared.

dynOBD

October 2016 - December 2016

Android mobile application that, over a Bluetooth connection with a vehicle, can provide live data, like current speed and throttle. Moreover, the user can choose to keep track of trips' information, such as origin, destination, time and maximum speed.

✓ Graduate Teaching Assistant

September 2017 - Present

University of Ontario Institute of Technology, Faculty of Science

Managed laboratory activities for students to complete outside of their lecture sections as part of a C++ introductory course and a Software Quality Assurance advanced course.

Undergraduate Teaching Assistant

January 2017 - April 2017

University of Ontario Institute of Technology, Faculty of Science

Managed laboratory activities for students to complete outside of their lecture sections as part of a C++ introductory course.

System Administrator

September 2014 - December 2014

University of Ontario Institute of Technology, International Office

Oversaw students' UHIP coverage, in addition to the responsibilities mentioned below.

Assistant System Administrator

May 2014 - August 2014

University of Ontario Institute of Technology, International Office

Design and maintenance of the International Office website. Also aided in the planning and marketing processes for various events held for international and exchange students.

EXTRACURRICULAR ACTIVITIES

☀ Program Representative: Computer Science

September 2017 - Present

UOIT Graduate Student Council

The GSC ensures that the university is aware of the concerns of graduate students and advocates for resolutions and changes were applicable. Program Representatives are closely involved with all of the council matters, and act as a bridge between the GSC and the rest of the students.

Founding Chair

September 2016 - December 2016

Vice-Chair

May 2018 - September 2018

UOIT ACM-W (Women's) Student Chapter

Responsible for leading the team and managing the chapter's activities in accordance with the mission of ACM and ACM-W. The chapter provided opportunities for networking and mentoring for all students on campus, especially those in STEM programs.

GitHub's Local Hack Day: Mentor and Judge

September 2016 – April 2017

UOIT Computer Science Society and University of Ontario Institute of Technology

Mentored by offering support to the participants in terms of ideas, development workflow, and implementation. Also partook in the judge panel by voting for best hack of the event.

Secretary

September 2015 – April 2016

Webmaster and Social Media Director

September 2014 – April 2015

American Society of Mechanical Engineering (ASME), UOIT Student Chapter

Designed and managed the chapter's website by keeping it current in accordance to the events hosted. Organized and carried out all general and executive meetings pertaining chapter matters.

LANGUAGES





