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

Concurrent programs can be very difficult to test and debug, considering their nondeterministic nature. For this reason, and as my thesis topic, I am developing a tool that can automatically localize concurrency bugs given a unit of source code and a set of tests.

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're aware of.

Parallel Genetic Algorithms

April 2017

A simple program implementing a genetic algorithm was 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 application that, over a Bluetooth connection with a vehicle, provides live data such as current speed and throttle. Moreover, the user can choose to keep track of trips' information, like origin, destination, time and maximum speed.

EXPERIENCE

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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. I marked all submissions and provided availability for office hours and drop-ins.

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. I marked all submissions and provided availability for office hours and

System Administrator

September 2014 - December 2014

University of Ontario Institute of Technology, International Office

In addition to the responsibilities mentioned below, I helped oversaw students' UHIP coverage.

Assistant System Administrator

May 2014 - August 2014

University of Ontario Institute of Technology, International Office

Design and maintenance of the department 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.

Vice-Chair

May 2018 - September 2018

UOIT ACM-W Student Chapter

As the chapter's Founding Chair, I mentored my peers in order to make it possible to continue our mission on campus once I graduate. In doing so, I helped oversee and manage all of the chapter's administration, such as social and academic events, workshops, budget and marketing.

♣ GitHub's Local Hack Day: Mentor and Judge

September 2016 – April 2017

UOIT Computer Science Society and University of Ontario Institute of Technology

As a mentor, I offered support to the participants in terms of ideas, development workflow, and implementation. At the end of the day, I joined the judge panel to select the best hack of the event.

Founding Chair

September 2016 - December 2016

UOIT ACM-W Student Chapter

As the chapter's principal officer, I was responsible for leading the team and managing the chapter's activities in accordance with the mission of ACM-W and ACM. We provided opportunities for networking and mentoring for all students on campus, especially those in STEM programs.

LANGUAGES





