

# LUISA ROJAS GARCIA

COMPUTER SCIENTIST

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## EDUCATION

### Master of Science in Computer Science

September 2017 – August 2019 (*expected*)

University of Ontario Institute of Technology

Research area: Automatic localization of concurrent faults.

### Bachelor of Science in Computer Science (Honours)

September 2013 – April 2017

University of Ontario Institute of Technology

## SKILLS

- C, C++
- Python (Flask)
- Graph Databases (Neo4J)
- Git (GitHub)
- JavaScript (NodeJS)
- Relational Databases (PostgreSQL, MySQL)
- HTML, CSS
- NoSQL (MongoDB)
- Machine Learning (Keras, TensorFlow)
- Java
- Containerization (Docker)
- Source Code Instrumentation (TXL)

## PROJECTS

### Mentor-Mentee Matching System

February 2018 – April 2018

Designed and implemented a platform for a matching system between mentors and mentees for the Peer Mentorship Program at the university. Given a set of survey answers, our system matches them according to their compatibility and stores the results for other visualization features.

CSS Docker HTML JavaScript Neo4J PostgreSQL Python

### Distracted Driver Detection

December 2017

Using a Convolutional 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.

Keras Jupyter Notebooks Python TensorFlow

### 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.

C# Unity Game Engine

### 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.

Android Studio Java

## EXPERIENCE

### Teaching Assistant

January 2017 – April 2019

University of Ontario Institute of Technology, Faculty of Science

Guided junior and senior students through the course material in order to successfully complete their weekly (or bi-weekly) lab assignments. Once handed in, I provided feedback on how to improve the student's design or implementation. I also provided such feedback for other course assignments, midterms, and final exams.

I supported students in the following courses: Programming Workshop (C++), Software Quality Assurance (C++, Java), and Web Application Development (JavaScript, MongoDB).

### System Administrator

September 2014 – December 2014

### Assistant System Administrator

May 2014 – August 2014

University of Ontario Institute of Technology, International Office

Designed and maintained the International Office website. In addition, aided in the planning and marketing processes for various events held for international and exchange students. As System Administrator, I also oversaw the international students' University Health Plan (UHIP) program.

## EXTRACURRICULAR ACTIVITIES

### Director of Graduate Studies

November 2018 – *Present*

Ontario Tech Student Union, Board of Directors

The Board of Directors is the highest governing body of the Student Union, comprised of students from each faculty who are for the stewardship of the organization, making sure that all decisions made are in the best interest of the students.

### Program Representative - Computer Science

September 2017 – May 2019

Ontario Tech 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.

### Panelist and Logistics Volunteer

February 2019

"Go Code Girl" by Ontario Network of Women in Engineering

This outreach event gives girls in grades an introduction to the world of coding and software development and discover opportunities in computing and engineering fields.

### Founding Chair

September 2016 – December 2016

### Vice-Chair

May 2018 – September 2018

Ontario Tech ACM-W 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.

### Mentor and Judge

September 2016 – April 2017

Local Hack Day by GitHub at Ontario Tech University

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.

## LANGUAGES

English (Fluent), Spanish (Native), French (Basic)