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

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)