



luisa rojas

computer scientist

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experience

DevOps Developer

IBM

January 2021 – Present

- Implement and set up the architecture for different IBM Cloud services to utilize in development, test, and production environments using IaC.
- Set up the resources that are needed by various cloud offerings in the development stage, such as Redis DB, PostgreSQL, VPCs, and IKS/OpenShift clusters.
- Automate and optimize processes using tools like Jenkins, Docker, Kubernetes, and Helm.

Teaching Assistant

University of Ontario Institute of Technology

January 2017 – December 2019

Provided academic support junior and senior Computer Science students in the following courses:

- Programming Workshop (C++)
- Software Quality Assurance (C++, Java)
- Web Development (JavaScript, MongoDB)

Web Administrator

University of Ontario Institute of Technology

May 2014 – December 2014

education

MSc in Computer Science

University of Ontario Institute of Technology

September 2017 – August 2020

BSc in Computer Science (Hons.)

University of Ontario Institute of Technology

September 2013 – April 2017

skills

Programming

C, C++, Java, Python, JavaScript

Databases

PostgreSQL, NoSQL, MongoDB, Neo4J

Web Development

jQuery, NodeJS, Flask, HTML, CSS, REST

DevOps

Git, GitHub, Docker, Jenkins, Kubernetes, Terraform

Cloud Computing

IBM Cloud, AWS

leadership

Director of Graduate Studies and Hiring Committee Member

Board of Directors

Ontario Tech Student Union

Computer Science Program Representative

Ontario Tech Graduate Student Council

Vice-Chair and Senior Mentor

Ontario Tech ACM-W Student Chapter

Founding Chair

Ontario Tech ACM-W Student Chapter

Mentor and Judge

Local Hack Day by GitHub and MLH

Panelist and Logistics Volunteer

Go Code Girl 2019

Ontario Network of Women in Engineering

projects

CFLASH: Concurrency Faults Localized Automatically using Search Heuristics

April 2018 – April 2020

Automatic fault localization tool for multithreaded Java programs. CFLASH utilizes a combination of noise-based code injection and a heuristic search algorithm to identify potentially faulty code sections containing concurrency bugs.

Docker Java Python TXL

Mentor-Mentee Matching System 🐙

February 2018 – April 2018

Web-based platform for a matching system between mentors and mentees for the Peer Mentorship Program at Ontario Tech. The system matches them by faculty according to their compatibility using a set of survey answers from both parties. The output is a set of formed peer-mentoring group.

CSS Docker HTML JavaScript Neo4J PostgreSQL Python

Distracted Driver Detection 🐙

December 2017

Trained a deep Convolutional Neural Network (CNN) to predict with 99.4% accuracy whether an individual is driving distracted as well as what type of distraction is involved. The VGG16 CNN model, pre-trained on ImageNet, is coupled with a retrained fully connected model and tested on previously unseen distracted driver images.

Keras Jupyter Notebooks Python TensorFlow

dynOBD 🐙

October 2016 – December 2016

Mobile application that records and keeps track of statistics about any given car trip. It uses a Bluetooth connection to the vehicle in order to provide trip information and other live data visualizations to the user such as current speed and throttle. We used a local SQL database and other APIs, like Google Maps and OBDII Java.

Android Studio Java