

Qingyuan Qie

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EDUCATION

Bachelor of Science in Computer Science

Sep. 2017 – Present

University of Toronto, Faculty of Arts and Science, cGPA: 4.0

AWARDS

University of Toronto Scholar (2018-2019)

Sep. 2019

Coxeter Scholarship in Mathematics

Oct. 2019

Dorothy A. P. Walters Scholarship

Jan. 2020

EXPERIENCE

Software Engineer Intern

May 2020 – Apr. 2021

SOTI Inc.

Mississauga

- Working mainly on C# backend of MobiControl.
- Participating in new feature development.
- Implementing and troubleshooting of automated tests.

Research Opportunity Program (CSC399) student

Sep. 2019 – Apr. 2020

University of Toronto

Toronto

- Worked closely with Professor Peter Marbach to research and developed a novel wireless protocol that allows for a high-performance distributed wireless network on IoT (Internet of Things) devices.
- Implemented a Linux driver that improves the fair share of wireless channel.

Teaching Assistant

Jan. 2020 – Apr. 2020

University of Toronto

Toronto

- Teaching assistant for CSC148: Introduction to Computer Science.

Undergraduate Researcher

July 2019 – Aug. 2019

Fields Institute

Toronto

- Project: Image Guided Radiation Therapy Net.
- Developed Convolutional Neural Network based that provide quality assurance for medical image registration by performing image classification

PERSONAL PROJECTS

RAIN Compiler | Rust, LLVM

May 2020 – Present

- Participated in developing a novel RVSDG-based research compiler for a functional language with linearly typed effects, which compiles to LLVM

TECHNICAL SKILLS

- Proficiency in Multiple Programming Languages:
C/C++, Rust C#, Python, Java
- Knowledge of Computer Architecture, namely Memory Hierarchy, Heterogeneous Computing
- Experience in GPU programming, namely CUDA
- Experience in C Program Optimization, Multi-thread Programming (Pthreads, OpenMP), Cloud/Distributed Computing (MPI), and System Programming
- Experience of writing compilers and using LLVM code generator.
- Knowledge of Machine Learning, experience with using TensorFlow