

BRANDON HENDERSON

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EDUCATION

University of Toronto

2017-2023

Computer Science Specialist & Mathematics Minor

CGPA: 3.53/4.00

EXPERIENCE

Security Compass

May 2020 - August 2021

Software Developer Intern

- Collaborated with a scrum team as a full-stack web developer primarily using **React** and **Redux** in the frontend along with the **Django** REST Framework to develop API endpoints in the backend.
- Contributed to migration of existing E2E tests to **Cypress**, and the creation of new frontend tests improving reliability and streamlining the QA process by more than doubling test coverage.
- Assisted the support team by identifying and resolving production issues.

University of Toronto

September 2019 - April 2020

Teaching Assistant

September 2022 - December 2022

- Teaching assistant for both CSC108 Introduction to Computer Programming, and CSC148 Introduction to Computer Science.
- Led problem solving activities with students teaching core programming concepts in **Python**, basic algorithms, and unit testing through active learning lectures, labs, and office hours.
- Invigilated and marked exams while discussing student solutions with the professors and other TAs.

PROJECTS

Wikipedia Surfer

- Collaborated with a partner and a CSC148 professor to develop a future assignment that involves writing a program which visualizes paths between Wikipedia pages using the first link on a page.
- Implemented a functioning sample solution using **Python** along with a test suite using **pytest**.

Image Edge detection

- Developed a **C++** program which reads in a PGM image and outputs a new image with a Laplacian filter applied for edge detection.
- Implemented several parallel CPU and GPU implementations using **CUDA** with different pixel partitioning methods to optimize performance for different image sizes.

Break the Bricks

- Developed an application inspired by the arcade game Arkanoid implemented using **Python** and **PyGame**.
- Composed an original ambient soundtrack composed using LogicProX.

SKILLS

Languages

Python, JavaScript, TypeScript, C, Java

Software & Tools

Linux, Bash, Git, Docker, PostgreSQL, React, Redux, Django, Cypress, pytest