# Brendan Hau

Toronto, Ontario
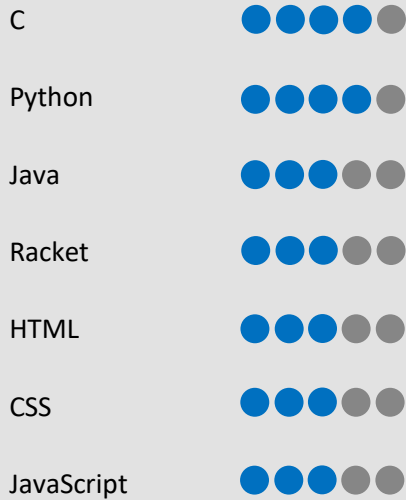
416-995-6682
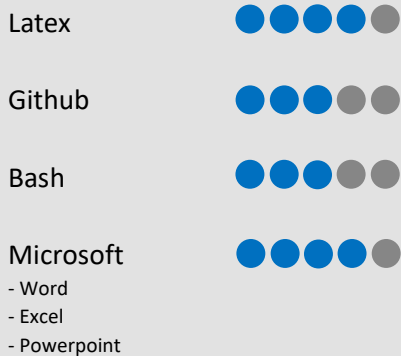
brendanhau96@gmail.com
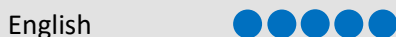
## Programming Languages

| Skill | Level |
|---|---|
| C | ●●●●○ |
| Python | ●●●●○ |
| Java | ●●●○○ |
| Racket | ●●●○○ |
| HTML | ●●●○○ |
| CSS | ●●●○○ |
| JavaScript | ●●●○○ |

## Other

| Skill | Level |
|---|---|
| Latex | ●●●●○ |
| Github | ●●●○○ |
| Bash | ●●●○○ |
| Microsoft | ●●●●○ |

- Word
- Excel
- Powerpoint

## Language

| Skill | Level |
|---|---|
| English | ●●●●● |

## Education

Post-Secondary Education

**2014 - 2019** — **Honours Bachelor of Science**
University of Toronto, St. George
Program: Computer Science (Specialist)
Focus: Computer Systems

**2019 - 2020** — **Cyber Security Management Certificate**
University of Toronto, St. George

## Course Work

**Database Queries** — Write simple queries, develop schemas and models, and storing data

**Computer Networking** — Network architecture, protocols, and propose changes to solve network issues such as congestion

**Algorithm Design & Analysis** — Analyzing runtime costs associated with different algorithms, as well as possible changes and their implications

**Operating Systems** — Understanding the underlying properties of operating systems (concurrency, deadlock, memory access, etc.)

**AI & Reasoning** — Search algorithms, representations of reasoning as well as uncertainty

**Compilers & Interpreters** — Scanning regular expressions, parsing context free grammars, type and usage checking, and code generation

## Projects

**2017** — **File System**

Developed code for organizing, storing and retrieval of data as well as checking for small numbers of inconsistencies and fixing them.

**2018** — **Pacman AI**

Developed the AI for the ghosts in Pacman, using search algorithms and heuristics.

**2019** — **Compiler**

A course project to create a working compiler (accepts an input file with an associated grammar and converts it into machine code).