Michael Pu

Location: Toronto, Ontario | **Email**: michael.pu123@gmail.com
GitHub: https://github.com/mchlp | **LinkedIn**: https://linkedin.com/in/michael-pu

Recent Projects

Ball of Duty (2019)

https://github.com/mchlp/BallOfDuty/

Java, OpenGL

> 3D first-person multiplayer network shooting game
> Two-person collaboration project

Doorbell (2019)

https://github.com/mchlp/doorbell

Javascript, React, Arduino

> Doorbell and occupancy monitor system using Arduino and PIR sensor with web interface

Tetris Game AI (2018)

https://github.com/mchlp/TetrisGameAI

Java, JavaFX, Machine Learning

> Created a Tetris game clone with an AI component
> Used an evolutionary machine learning algorithm to train an AI to play the game
> Implemented unit testing for GUI and backend

Remote Control Robot Car (2018)

https://github.com/mchlp/RemoteControlCar

Raspberry Pi, Python

> Build a robot car that can be controlled remotely through SSH
> Implemented live video streaming from onboard webcam

Work/Volunteer Experience

Event Director

2019 Don Mills Programming Gala

January 2019 - April 2019

> Led organization of a programming competition involving over 200 students from 15 schools across the Greater Toronto Area

Camp Counsellor & Leader-In-Training Instructor

City of Toronto Parks, Forest, and Recreation

July 2017 - Present

Education

Honours Software Engineering, Co-op

Faculty of Engineering and Faculty of Mathematics

University of Waterloo

Skills

Languages

Python, Java, Javascript, C/C++, SQL

Tools/Frameworks

Node.js, React, Ardunio, Raspberry Pi, Git, Linux

Achievements

Certificate of Distinction / Euclid Mathematics Contest, University of Waterloo / 2019

Certificate of Distinction / Canadian Senior Mathematics Contest, University of Waterloo / 2019

Quarterfinalist / VEX Robotics Toronto VRC / 2018

Certificate of Outstanding Achievement / Avogadro Chemistry Exam, University of Waterloo, 2018

Ontario Finalist / ECOO Programming Competition / 2018

Certificate of Distinction / Fermat Mathematics Contest, University of Waterloo / 2018

Certificate of Distinction / Hypatia Mathematics Contest, University of Waterloo / 2017

Standard First Aid & CPR-C/ Lifesaving Society / 2017

First Place / CERT Skills Event, HOSA Canada Spring Leadership Conference / 2017

Extracurricular Involvement

President & Lead Programmer

Don Mills Robotics Club | VEX Team 2505A

President

Don Mills Programming Club