

Michael Pu

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SUMMARY OF QUALIFICATIONS

- > Experienced in using multiple programming languages and tools
- > Excellent problem-solving and leadership skills
- > Organized, friendly, responsible, punctual

RECENT PROJECTS

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

- > Built a robot car which can be controlled remotely through SSH
- > Implemented live video streaming from the webcam on the robot

Robot Pathfinder (2018)

<https://github.com/mchlp/RobotPathFinder>

Java, JavaFX, Pathfinding Algorithm

- > Reads a map and computes the shortest path from the starting position to the goal
- > Displays and animates the map and shortest path to the user through a GUI interface
- > Implemented unit testing using JUnit

WORK EXPERIENCE

City of Toronto Parks, Forestry, and Recreation

Camp Counsellor & Leader-In-Training Instructor

JULY 2017 - PRESENT

- > Planned, implemented, and supervised a variety of activities which follow the Principles of Healthy Child Development outlined by Parks and Recreation Ontario
- > Interacted with parents/caregivers to provide program information and feedback
- > Instructed a variety of programs in multiple areas, including science, cooking, sports, and babysitting
- > Covered senior positions as needed

TECHNICAL SKILLS

Languages

- > Python
- > Java
- > Javascript
- > C/C++

Frameworks/Tools

- > NodeJS
- > ReactJS
- > Arduino
- > Raspberry Pi
- > Git
- > Linux
- > Bootstrap
- > MySQL

RECENT CERTIFICATIONS/ACHIEVEMENTS

- > **Certificate of Distinction**, Euclid Mathematics Contest, University of Waterloo **2019**
- > **Certificate of Distinction**, Canadian Senior Mathematics Contest, University of Waterloo **2019**
- > **Ontario Semifinalist**, ECOO Programming Competition **2019**
- > **Quarterfinalist**, Team 2505A, VEX Robotics Toronto VRC **2018**
- > **Participant**, Hack the North 2018 **2018**
- > **Certificate of Outstanding Achievement**, Avogadro 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 **2017**
- > National Spring Leadership Conference

EDUCATION

University of Waterloo

Starting September 2019

- > Honours Software Engineering, Co-op

Don Mills Collegiate Institute

September 2015 - Present

- > Enrolled in Grade 12 Gifted Intensive Support Program
- > Working towards Ontario Secondary School Diploma

RELEVANT EXTRACURRICULAR INVOLVEMENT

- > **President & Lead Programmer**, Robotics Club September 2016 - Present
- > **President**, Programming Club September 2016 - Present
- > **Lead Organizer**, Don Mills Programming Gala September 2018 - April 2019