Patricia Liu

☑ p99liu@uwaterloo.ca · **i** in/patricia-liu-a4589b153/ · **?** PatLiu1168 · **☐** patliu1168.github.io

SKILLS

- Programming Languages: C/C++, Bash, Python, RobotC, HTML/CSS/JavaScript, Java
- Operating Systems: Windows, Linux Operating System, OSX
- Software Tools: Apple XCode, Microsoft Visual Studio Code, GitHub
- Great leadership, teamwork, and communication skills gained from coaching and leading a robotics team
- Excellent self-teaching skills shown by learning Java, HTML/CSS, JavaScript, Bash, and Python online.

RELEVANT PROJECTS/EXPERIENCE

VEX Robotics | Bell High School Girls Team

Ottawa, ON

Team Leader

March 2018- February 2019

- Participated in the 2018 VEX Robotics Competition Turning Point
- Led a team of 4 girls to design, build, and program a VEX robot; self-taught RobotC to program the robot to move and launch balls; researched gear ratios to build an efficient dual flywheel launcher; investigated the physics of launchers to calibrate its trajectory; and designed the robot's structure.

Personal Website November 2019 - present

 Applied JavaScript and HTML/CSS to design and create a website that contains a portfolio of programming skills, showcased previous C++ projects, and accessed networking and software platforms.

Hackathons December 2019 - present

• Participated in the 2020 SheHacks IV; used Python and Google AI to help create an application that identified animals and designed a graphical user interface.

Games September 2016 - present

- Created role-playing games by using Turing to program actions and behaviour, and Paint to design the sprites and graphics.
- Used Jupyter Notebook to create games, improving my comprehension of the language Python. Games include tic tac toe and blackjack.

WORK EXPERIENCE

Coach/Summer Camp Counselor

Ottawa, ON

SOONG BADMINTON ACADEMY

June 2017-August 2019

- Certified as an NCCP Regional Badminton Coach by Badminton Canada.
- Supervised with patience a group of six to twelve children, ages varying from 6 to 14
- Taught correct badminton techniques and organized activities for the children to apply the skills they've learned, attaining great communication and observation skills.
- Collaborated with a team of 10 counselors and volunteers to ensure the safety and satisfaction of campers, therefore demonstrating excellent teamwork skills.

Assistant Teacher Ottawa, ON

XING XING CHINESE DAYCARE

September 2013-March 2017

- Organised outdoor activities for 30 children, from ages four to eleven years.
- Ensured their safety from moving vehicles, strangers, and other hazards; and maintained an understanding of handling and responding to emergency situations.
- Helped the children with their math and Chinese work, consequently improving communication abilities.

EDUCATION

University of Waterloo *GPA 3.7*

Waterloo, ON

Candidate for Bachelor of Applied Science, Computer Engineering Septen GPA:

September 2019 - April 2024 (expected) 3.9/4.0

Interests/Awards

Programming, Piano, Flute, Badminton, Volleyball, Skiing, Rock Climbing. Silver Medal (grade 9, 10, 11, 12),

Grade 11 Gifted Chemistry Subject Award, Leadership Award, HOSA Sports Medicine: 8th place.