# Maxwell Li

Computer Science Co-op Student | 1B Term

## **Summary of Qualifications**

High level of knowledge in Data Structures, Algorithms, and problem solving skills from programming contests. Solid communication, organization, and teamwork skills gained from activities and projects. Eager to take initiative in creating new projects and self learning as demonstrated by history of projects.

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### **Experience**

- 2021- Markville Secondary School Computer Science Club Executive Position
- Worked with 6 other club executives in creating questions for mock computing competition on Hackerrank using Python to generate test data
  - Demonstrated the ability to communicate to an audience by teaching a third of the Senior level lectures and wrote code examples in C++, Java, and Python.
- 2019 Spent 80+ hours volunteering in various activities
  - Spent 60-70 hours in door to door canvassing, demonstrating communication skills

## **Projects**

- 2022-09 Finished deadline management program in Godot, greatly improving work efficiency and organization
- 2022-07 Co-created Procedurally generated bullet hell using Fast Fourier Transform of wav file for a computer science class in Java and Git
  - Communicated, assigned, and executed coding objectives. Self taught the Fast Fourier Transform algorithm
- 2021-08 Created Top-down shooter with 2D collision for personal learning and enjoyment
  - Implemented using olc::PixelGameEngine and C++ as an exercise in vectors
- 2021-07 Created a graph based Minesweeper for a computer science class using Java

### **Education**

2022-2027 Candidate for Bachelor of Computer Science, University of Waterloo, Waterloo, Ontario (Expected) Relevant Courses:

Designing Functional Programs (Advanced), Algebra for Honours Mathematics, Calculus 1 for Honours Mathematics

## **Achievements**

- 2022 University of Waterloo President's Scholarship of Distinction
- 2022 Canadian Computing Olympiad 2022 Silver Medalist
- 2021 Canadian Computing Olympiad 2021 Silver Medalist

### Technical Skills

4+ years of competitive programming with C++ & Java, and a strong understanding of mathematics as demonstrated by academic performance Languages & Tools

Languages & 10015

Years of Usage Language/Tool

- 4 Java, C/C++, Visual Studio, Eclipse
- 3 Python, VSCode
- 0.5-1 Git, Bash, Replit, Godot, Racket, Vim