

# AARON SUN

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## Education

### University of Waterloo

September 2024 – Present

*Bachelor of Applied Science in Electrical Engineering, President's Scholarship of Distinction*

*Waterloo, Ontario*

### William Lyon Mackenzie Collegiate Institute

September 2020 – June 2024

*STEM Enrichment Program: MaCS (Math and Computer Science), 95+ GPA*

*North York, Ontario*

## Experience

### Toronto Thunderbolts Volleyball Club

June 2022 – August 2022

*Coach* *Markham, Ontario*

- **Assisted in planning and running volleyball practices**, focusing on skill development and team drills to improve overall player performance and team cohesion.
- **Provided one-on-one and group coaching** to young players, teaching fundamental volleyball to build a strong technical foundation.
- **Fostered a positive and motivating learning environment**, emphasizing teamwork and sportsmanship.

### Self-Employed

July 2020 – September 2020

*Piano Tutor* *Bradford, Ontario*

- **Provided individualized piano instruction** to students of various ages and skill levels, developing personalized lesson plans to improve technique, theory, and musicality.
- **Prepared students for performances and exams**, guiding them through tailored practice routines and offering constructive feedback to build confidence and skill.

### Self-Employed

September 2019 – March 2020

*English Tutor* *Remote*

- **Developed personalized English lessons** tailored to the needs of young learners from China, incorporating custom-designed slides and interactive content to enhance language acquisition.
- **Conducted one-on-one tutoring sessions** for students aged 6-12, focusing on improving speaking, listening, reading, and writing skills through engaging and age-appropriate materials.
- **Achieved consistent student progress** by implementing adaptive teaching techniques, fostering a fun and supportive learning environment, and maintaining regular communication with parents to track development.

## Projects

### Sumobot | C, Arduino

February 2024 – June 2024

- **Designed and built a competitive sumobot from scratch**, utilizing Arduino and C programming to control motor functions, sensors, and combat strategies for a school robotics competition. Achieved 2nd place.
- **Implemented ultrasonic sensors** for obstacle detection and opponent tracking, optimizing the robot's response time and maneuverability during matches.

### Athlete's Edge | Java, JavaFX

January 2023 – June 2023

- **Developed an educational game using Java and JavaFX**, focused on teaching users about the life and challenges of student-athletes, incorporating interactive gameplay elements.
- **Applied object-oriented programming principles** by designing and implementing multiple classes for game mechanics, character management, and user interaction, ensuring modularity and code reusability.

## Technical Skills

**Languages:** Java, C, C++, Python, HTML, CSS

**Developer Tools:** VS Code, IntelliJ, IDLE, Arduino, GitHub, Java FX

## Leadership / Extracurricular

### Volleyball

September 2018 – Present

*Team Ontario, Varsity Team Captain, 9-Man Team Captain* *Ontario*

- Succeeded in joining Team Ontario for both indoor and beach volleyball. (2023)
- Captained varsity volleyball team and co-ed volleyball team for two years, lead to the finals both years. (2022-2024)
- Captained 9-man volleyball team, lead to a championship in silver bracket. (2024)

### Athletic Council

September 2022 – June 2024

*Member* *William Lyon Mackenzie Collegiate Institute*

- Participated in weekly discussions about various athletic events.
- Helped run said various events such as athletic banquets, intramurals, sports games, etc.