

# Anthony Lau

University of Waterloo Computer Engineering

Personal Website: [anthony5682.github.io](https://anthony5682.github.io)

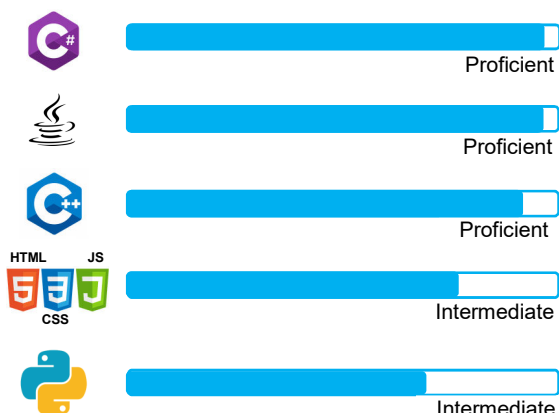
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## Skills



## Awards and Distinctions

- **President's Scholarship - \$2000**  
Awarded for over 90% admission average.
- **Nortel Networks Undergraduate Scholarship - \$3500**  
Awarded for outstanding academic performance and extracurricular activities involvement.
- **Duke of Edinburgh Silver Award**  
A year long program focused on community improvement and personal growth.
- **Ontario Scholar, Honor Roll**  
Achieved honor roll throughout all 4 years of high school, graduating with an average of 94%.

## Extracurricular

- **DECA** - competed at provincial level
- **Relay for Life** - helped raised over \$100K
- **RCM** - Piano level 8 1<sup>st</sup> class honor

## Interests

- **Outdoor sports** - skiing and biking
- **Reading** - fantasy and history
- **Community involvement and service** - 400+ hours

## Projects

### Particle Collider 🐙 Personal Project

- Created an application that efficiently simulates the motion of balls in a closed 2-D container.
- Implemented an event driven **priority queue** using a **binary heap** in **C#** using **.NET framework**.
- Designed **graphics** using **Windows Forms**.

### Website 🐙 Personal Project – [anthony5682.github.io](https://anthony5682.github.io)

- Designed and created a personal website using **HTML5**, MDBBootstrap, **CSS3**, **JavaScript**.
- Implemented **responsive** web design –display format changes depending on screen size.

### Casinorama 🐙 Final Design Project, Grade 12

- Designed and created a virtual casino, consisting of Poker, Roulette, and Blackjack in **Java**.
- Each game contains an **AI** that the user can play against.
- Used **object-oriented** programming to organize code and design **data structures**.
- Designed graphics using **JavaFX** framework.

### Skinny Road Personal Project

- Designed and created a **3D** game in **Unity**.
- Made use of **object-oriented** design and created a **GUI** to improve user experience.

## Experience

### Operation Executive - Robotics Club 2017-18

- Organized and coordinated the club's 80+ members in the VEX Robotics competition.
- Served as the club representative for sponsorships, reaching out and acquiring over \$10K for the club.
- Competed in Vex Robotics and served as team leader, coming in 6<sup>th</sup> place (110+ competitors)

### Lifeguard & Swim Instructor - Richmond Hill 2017-18

- Provided swim lessons to children of all ages and skill levels by creating personalized programs.
- Developed strong leadership and teamwork skills by coordinating lifeguard activities and training.
- Maintained and organized clean environment in and around the pool to ensure the safety of swimmers.

### Tutor - St. Theresa of Lisieux CHS 2016-18

- Mentored students after classes, helping improve students' averages by ~10%.
- Tailored lessons and content, complementing school curriculum with extra practice and unique problems, allowing students to excel.