

# GARRETT YEO

---

(604) 677-2031 | garrettyeo@hotmail.com | garrettyeo.github.io

## Work Experience

### UNIVERSITY OF TORONTO

*Research Intern*

*July – September 2017*

- Completed a ten-week research internship in fitness analytics under the guidance of Dr. M. Chang-Tsai; responsibilities included clerical tasks and modeling Critical Power and Critical Speed in Microsoft Excel
- Analyzed athlete fitness with data collected from the University of Toronto Triathlon Team to determine optimal training regimen and rest period for athletes
- Tested reliability of the Critical Power model over varying distances and through the 3-minute all-out test

### CITY OF BURNABY and CITY OF VANCOUVER

*Lifeguard / Instructor*

*April 2017 - Present*

- Provide first aid, emergency care, pool supervision, and assistance in aquatic recreation
- Teach children ages 3–12 stroke fundamentals and water safety skills to the Red Cross Standard
- Maintain pool chemical balance and perform pool filter maintenance

### BURNABY BARRACUDAS AQUATICS CLUB

*Swim Coach*

*January 2016 – Present*

- Mentor a group of school age children to perform in various competitions; helped qualify five of the 20 swimmers in my group for the BC provincial competition in the summer of 2019
- Created and developed a daily fitness program to assist athletes in both dryland and wetland training
- Provide swimmers one-on-one feedback and instruction for stroke correction and mechanics

## Education

### UNIVERSITY OF BRITISH COLUMBIA

*Class of 2022*

*BASc in Electrical Engineering*

Activities: AMS Game Development Association, UBC IEEE, UBC Recreation

Relevant Coursework: Data Structures and Algorithms, Intro to Microcomputers, Circuit Analysis I

## Projects

### HEAR2TEXT

**AngelHack 2019**

*July 2019*

- Developing chat application targeted towards users who are deaf or hard of hearing that converts spoken word into text on screen using the Google Cloud Speech-to-text API
- Plan to use IBM Watson to aid application in reading American Sign Language and convert to text

### APPLIANCE SMART

**HallowHacks 2018**

*October 2018*

- Achieved 3<sup>rd</sup> place in the 2018 HallowHacks Hackathon for creating a website using Angular where community groups can raise funding for their specific appliance needs; application still in development
- Connected users with the national EnerGuide database to determine the least energy-consuming appliance
- Calculated costs of energy consumption per billing cycle based on the appliance mode

## Involvements and Interests

**Proficiencies:** C/C++, Git, HTML, Python, Test Automation; basic in MATLAB, Selenium, and Solidworks

**Hackathons:** AngelHack Seattle 2018 and 2019, 3<sup>rd</sup> Place HallowHacks Vancouver 2018

**Other Experience:** Founder of Model United Nations Club (2016-2018) in high school

**Volunteering:** Assistant Swim Coach at Special Olympics BC-Richmond, Junior Instructor at CodeMakers Club SFU Science Allve, Student Volunteer at SIGGRAPH 2019

**Interests:** Swimming, reading, computer graphics, Vancouver Canucks, listening to Spittin Chiclets