

# Darren Li

Candidate for BAsC in Computer Engineering | University of Waterloo | Class of 2023



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[DEVPOST](#)

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## QUALIFICATIONS

- 4 months of C++ in programming course (linked lists, sorting algorithms, polymorphism)
- Proficient in Python (developed tools for software testing, Google Maps API for hackathons)
- Familiar with C# and OOP principles; developed cross checking algorithm using linked lists
- 5 months experience with Java; created Pacman style game
- Exposure to HTML/CSS and JavaScript through hackathons/self-learning; built personal website
- Excellent teamwork and co-operation skills from sport teams and lifeguarding
- Strong leadership abilities from coaching and team extracurriculars

## PROJECTS

**BreadCrumbz** – uOttHack 2019 (4<sup>th</sup> place overall) (Python)

- Developed algorithm to compute fastest route time given the final destination, a list of specified restaurant locations, and a searched homeless shelter location by utilizing Google Maps nearby search, directions, and route APIs

**DUI-Stopper** – QHack 2019 (Python)

- Utilized Google Maps nearby search API to determine if alcohol was served in the given coordinates received from the web app.

**Pacman Styled Game**, Java (IntelliJ IDEA IDE)

- Developed two player Pacman styled game to explore Java capabilities using rectangles, collision detection, 2D arrays, and key listeners
- Implemented smooth interactive menu with ability to buffer movement controls when turning

## EXPERIENCE

**Software QA Analyst, Sonova-Unitron Canada, Kitchener, Ontario**

Jan 2019 – Present

- Developed python tools to drastically increase testing efficiency up to 70%; scalable for future tests
- Implemented C# cross referencing algorithm using linked lists to drastically reduce manual verification
- Collaborated with developers and project manager to efficiently identify software bugs and document them through Polarion Application Lifecycle Management

**Software Update Assistant, WeissBeerger, Brampton, Ontario**

Jul 2018

- Performed firmware and security updates to streamline Big Data solutions and optimize profit for breweries, soft drink manufacturers, and bars
- Debugged hardware and software errors during updates such as connection timeouts
- Completed all device updates 40% faster than expected

**Assistant Coach, Thundercats Volleyball Club, Richmond Hill, Ontario**

Sept 2017 – May 2018

- Assisted head coach in developing a top 3 team in Ontario for their age division

**Deep Water Lifeguard, Canada's Wonderland, Vaughan, Ontario**

May 2017 – Sept 2017

- Received prestigious award for demonstrating most acts of service, safety, courtesy, cleanliness, and integrity (out of 100+ guards); explicitly recognized by director of operations for excellent guest service

## TEAMS

### Robotics

- Designed and operated mechanical systems of a VEX robot in team environment
- Designed gameplay ideas such as robot shape, optimal lifting mechanism, and playstyle

### Sports

- Awarded 2018 Athlete of the Year (St. Theresa of Lisieux)
- 4 years of volleyball and badminton at school; Won York Region High School Badminton Singles and received Antique Bronze medal at OFSAA Badminton 2018
- University of Waterloo Intramural Volleyball Team

## OTHER QUALIFICATIONS

- Vision Youth Leadership Program (Duke of Edinburgh Award – Bronze); practiced team building and leadership skills, project management to plan hikes, and Toast Master presentation skills
- High Five Principles of Healthy Child Development