Darren Li

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

/li-darren/   darren.li@uwaterloo.ca   /in/li-darren/   https://li-darren.me   /DarrenLi

---

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

RehabiliNation – MakeUofT 2019 **(2 category wins)** (Python)   Feb 2019
- Utilized Arduino and IMU sensors to send serial data to a Python backend which triggered programmable key binds to play modern "WASD" and arrow key games

BreadCrumbz – uOttaHack 2019 **(4th place overall)** (Python)   Feb 2019
- Developed algorithm to compute fastest route time through searching and incorporating set locations by utilizing Google Maps nearby search, directions, and route APIs

DUI–Stopper – QHacks 2019 (Python)   Feb 2019
- 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)   June 2017
- Developed two player Pacman styled game to explore Java capabilities using rectangles, collision detection, 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 – May 2019
- Developed tool in Python to drastically increase productivity 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
- 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
- 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