Darren Li

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

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QUALIFICATIONS

- Proficient in Python (developed tools for software testing, RESTful APIs for hackathons)
- 4 months of C++ in programming course (linked lists, sorting algorithms, polymorphism)
- Familiar with C# and OOP principles; developed cross checking algorithm using linked lists; LINQ
- 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 my Python backend which triggered programmable key binds to allow people with disabilities to play modern "WASD" and arrow key games

BreadCrumbz – uOttaHack 2019 **(4th place overall)** (Python)   Feb 2019
- Developed algorithm which integrates the delivery of surplus supermarket produce to homeless shelters into your commute by utilizing Google Maps nearby search, directions, and route APIs

DUI–Stopper – QHacks 2019 (Python)   Feb 2019
- Utilized Google Maps nearby search API to verify if alcohol is served around given coordinates from the web app to determine if driver must perform "sobriety test" before unlocking their vehicle with Smartcar API

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 to implement bufferable movement controls with smooth graphics

EXPERIENCE

Software QA Analyst, Sonova-Unitron Canada, Kitchener, Ontario   Jan 2019 – May 2019
- Took initiative to develop tool in Python which utilized Tkinter and XML parsing to drastically increase testing 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 in agile environment through Jira and 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   2018
- 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 and Waterloo S.E.R.V.E volleyball club

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