Darren Li

Candidate for Bachelor of Software Engineering | University of Waterloo | Class of 2023

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QUALIFICATIONS

- Proficient in Python (scripts, personal projects/hackathons, developed tools for software testing)
- Familiar with Node JS (utilized RESTful APIs for internal hackathon)
- 4 months of C++ in programming course (linked lists, sorting algorithms, polymorphism)
- Experienced with VHDL and design principles (state machines, synchronous/asynchronous)
- Familiar with C# and OOP principles; developed cross checking algorithm using linked lists; LINQ
- 5 months experience with Java; created Pacman style game
- Excellent teamwork and co-operation skills from sport teams and lifeguarding
- Strong leadership abilities from coaching and team extracurriculars

PROJECTS

Garage Door Recognizer – (Open CV) (Python)   Dec 2019
- Developed image processing algorithm to determine garage state and send email/SMS accordingly.

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

EXPERIENCE

Software Developer, Genesys, Markham, Ontario   Sept 2019 – Dec 2019
- Implemented AWS auto-scaling and monitoring to our micro service to create highly scalable and maintainable stacks, saving up to 70% in costs for particular regions.
- Took ownership and integrated new features to crash reporting script that analyzed core files and graphed data to automate manual gdb debugging
- Developed AWS cloud-formation templates that work across all AWS regions, allowing for easy and automated configuration during deployment
- Integrated new features to monitor instance health such as configuring CloudWatch alarms and dashboard management

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

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 lead mechanical systems operations of a VEX robotics teams
- 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