

# Darren Li

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## EDUCATION

### University of Waterloo

Candidate for Bachelor of Software Engineering

Expected: May 2023

- 4X Term Dean's Honour List
- Courses: Data structures, Algorithms, OOP, Operating Systems, Database Systems

## EXPERIENCE

### Salesforce

Software Engineering Intern

May 2021 – Present

- Building cool things

### Genesys Laboratories

Backend Developer (Speech Recognition Connector Team)

Sept 2020 – Dec 2020

- Led the development of enabling high throughput publishing of text transcription results to other services, transmitting over 40000+ Kafka events per minute, by designing a Java concurrent task scheduler
- Reduced pre-processing time of transcription tasks by 50%; designed multi-level cache for API calls
- Integrated SNYK Security Platform service to scan for security issues every Jenkins pipeline deployment, eliminating 30+ possible dependency vulnerabilities and attack types

### Genesys Laboratories

DevOps Developer (Voice Platform Team)

Sept 2019 – Dec 2019

- Implemented AWS EC2 auto scaling and monitoring for docker microservice to create a highly scalable and maintainable application, saving up to 70% in costs
- Took ownership of automated gdb crash debugger Python script that analyzed AWS core dump files and graphed data with Matplotlib, increasing reporting speed by 400%
- Integrated CloudWatch dashboard and alarms for resource monitoring and notifying team about abnormal activity by tracking application health such as CPU and memory usage
- Developed AWS Cloud Formation templates in YAML for over 7 AWS regions, allowing for automated custom environment configurations during deployment

### Sonova-Unitron Canada

Software QA Analyst

Jan 2019 – May 2019

- Initiated development of Python tool to modify XML files that increased testing speed by 70%
- Implemented C# script to update outdated language files, reducing manual verification by over 400%

## PROJECTS

### SFTP Remote Server File Explorer – Java

May 2020

- Designed remote server file explorer that allows for navigation, editing (auto upload changes), renaming, deletion, and drag and drop to and from local explorer to optimize workflow involving remote server

### EzCollab – Express, WebRTC

Mar 2020

- Launched screen sharing service to enable synchronous drawing (HTML canvas) on a screen share video stream and collaboration with over 20+ other web users using Socket.IO, Express server, and WebRTC

### Garage Door Recognizer – OpenCV, Python

Dec 2019

- Developed image processing algorithm using OpenCV to determine garage door state, with over 95% accuracy, to notify users of any doors left open via email/SMS to provide home security using a RPi

**Hackathons:** MakeUoFT 2019 (2 category wins), uOttHack 2019 (4<sup>th</sup> place overall)

## SKILLS

**Languages:** Java, C++, Python, JavaScript, SQL, YAML, HTML, Groovy, RISC-V, VHDL, MIPS

**Tools/Frameworks:** AWS, Kafka, Spring Boot, Node.js, Jenkins, Git, Maven, Docker, JUnit, Mockito, Express

**Other Skills:** Linux, Bitbucket, IntelliJ, Jira, Teams, Confluence, Postman

**Interests:** Cooking, Personal Finance, Sports, Video Games