

# 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 (Commerce Cloud)

May 2021 – Present

- Designed notification delivery infrastructure and database schemas to provide real time deployment updates for our customer's applications, serving over 100+ project managers

### 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 (TrueFit)

Jan 2019 – May 2019

- Initiated development of Python application to modify XML files that increased testing speed by 90%

## PROJECTS

SFTP Remote Server File Explorer – Java 

May 2021

- 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, Python, C++, JavaScript, SQL, YAML, HTML, C, Groovy

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

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

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