

# SHERRY LI

THIRD-YEAR CS STUDENT

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## SKILLS

### Languages:

C#, Java, C++, JavaScript, C, SQL, Python, TypeScript

### Frameworks & Libraries:

.NET Core, .NET Framework, Jersey, Express.js, Flask, React, Angular (1.x, 2+)

### Tools & Technologies:

Git, Bash, Node.js, AWS, Azure (incl. Pipelines), Docker, MySQL, Microsoft SQL Server, MongoDB

## EDUCATION

### University of Waterloo

Bachelor of Computer Science  
SEPT 2017 - APR 2022

### Relevant Courses:

Algorithms, Data Structures & Data Management, Operating Systems, Object-Oriented Software Development (C++)

## AWARDS

### K.C. Lee Computer Science Scholarship

DEC 2019

Awarded for excellent academic standing and commitment to Computer Science, valued at \$1500 and given to 2 third-year Waterloo students each year

### Dean's Honours List

DEC 2017 - DEC 2019

Completed 1A, 2A, 2B and 3A terms at the University of Waterloo with 87%+ averages

### President's Scholarship of Distinction

MAY 2017

Awarded for admittance to the University of Waterloo with 95%+ average, valued at \$5000

## EXPERIENCE

### Software Engineering Intern

JAN 2020 - MAR 2020

Verizon Media / Yahoo | Yahoo Calendar Backend

- Rebuilt CRUD flow of Calendar Notepad to utilize and persist GUID-based S3 keys with **Java**, **Jersey** and **MySQL**, eliminating collisions and the need to dynamically construct keys for **40,000+ requests daily**
- Built database crawler using **Java** to migrate **100+ millions** of notes to new GUID-based S3 locations and synchronized crawler with concurrent user PUT requests, preventing race conditions
- Identified and corrected logic in the codebase that falsely logged errors, removing approximately **20,000 errors daily** from server logs

### Software Engineer Intern

MAY 2019 - AUG 2019

SPS Commerce | Performance & Collaboration Analytics Engineering

- Developed support for disposable BI servers by building **Java** plugin and **.NET Core** API endpoint to dynamically construct redirect URLs, permitting access to core analytics application for **13,000+ users**
- Created **.NET Core** API endpoint that queries for customer accounts' infrastructure metadata, allowing operations against different server clusters in a multi-clustered environment with **3390+ accounts**
- Built user workflow health-checks using **C#** for web application used by **13,000+ users**, providing accurate measure of SLA compliance

### Software Engineer Intern

APR 2018 - AUG 2018

SPS Commerce | Category Management Analytics Engineering

- Created health-check endpoint using **C#** that verifies health of a key web service, enabling monitoring when the service is under load
- Built data-load automation tool feature using **C#** and **AngularJS** to distinguish between required/optional files, allowing separate error escalations and minimizing number of support tickets opened

## PROJECTS & ACTIVITIES

### Extriviaganza, 🐙 sherryhli/Extriviaganza

JUL 2019 - PRESENT

- Architected web-based trivia game, view the design diagram [here](#)
- Built JWT-secured **.NET Core** REST API that is containerized with **Docker**, used as interface between game client and database of questions
- Developed **C#** program that parses PDF files of questions into JSON and loads data into **SQL** database via bulk POST requests to above API
- Created backend using **socket.io**, **Express.js**, **MongoDB** to enable real-time gameplay and used a **Redis** cache to optimize question retrieval

### UW Blueprint, pro bono software development

JAN 2019 - PRESENT

- Built web application that tracks plastic waste transactions in India for Plastics for Change, implemented form input components with **React** and added feature to upload receipts using **Flask** and AWS S3
- Building decision-making platform for Social Venture Partners (Waterloo Region) using **MongoDB**, **Express.js**, **React**, and **Node.js**