

SHERRY LI

FOURTH-YEAR CS STUDENT

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SKILLS

Languages:

Java, C#, 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 - AUG 2020

Completed 1A, 2A, 2B, 3A and 3B 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

Incoming Backend Developer Intern

SEPT 2020 - DEC 2020

Shopify | Shopify Kernel, Commerce Essentials

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 measures 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 feature with **C#** and **AngularJS** to allow levelled escalations for missing files, minimizing number of support tickets opened

PROJECTS & ACTIVITIES

Extriviaganza | Personal Project

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 **SQL** database of questions
- Created backend using **socket.io**, **Express.js**, and **MongoDB** to enable real-time gameplay and used a **Redis** cache to optimize question retrieval

UW Blueprint | Pro Bono Software Development

JAN 2019 - PRESENT

- Driving development of shared tooling as infrastructure Technical Lead
- Built **MERN** stack decision-making app used by Social Venture Partners and United Way to review **1300+** applications from NPOs for **\$2 million** in funds
- Built web application that tracks plastic waste transactions in India for Plastics for Change using **React**, **Python**, **Flask**, and **PostgreSQL**