

Sophie Jiang

4B Computer Science & Business Administration

🏠 sophiejiang.github.io
✉ ss3jiang@uwaterloo.ca
in linkedin.com/in/sophiejiang
🔗 github.com/sophiejiang
☎ (403) 437-7658

Skills

| | |
|--------------------|---|
| Languages | C, C++, Python, Java, Go, SQL, JavaScript, HTML, CSS |
| Tools & Frameworks | React, Bootstrap, Spring, Google Web Toolkit, PostgreSQL, Prometheus, Docker, Git |

Experience

Software Engineer Intern | Autonomic

Jan – Apr 2021

Remote

- Implemented leader/follower pattern, load balancing functionality and other key fail-over features using Java to support a high-availability clustering model
- Designed and built out shared data storage solution with PostgreSQL to allow users to track the activity and state of each server running within the high-availability cluster environment
- Leveraged Prometheus and Grafana monitoring to identify resource bottlenecks in cluster, performing load testing experiments to determine resource requirements necessary for scaling the high-availability system
- Performed major refactoring to reduce redundant code and implement decorator pattern for optimized maintainability

Software Engineer Intern | Index Exchange

Jan – Apr 2020

Toronto, ON

- Designed and prototyped new audit logging service to record ad exchange auction activity using Go, eliminating all repetitive communication between supply and demand auction services
- Participated in redesign of auction engine architecture - meeting with teams to discuss ideas and issues, investigating potential solutions and building out user stories according to technical spike results
- Implemented code generation, data validation features for efficient node creation in graph representation of auction engine
- Developed a metrics package using Prometheus to benchmark performance of new auction services

Full Stack Software Developer Intern | Shareworks by Morgan Stanley (formerly Solium Capital)

Jan – Apr 2019

Toronto, ON

- Developed internal logger in Java to track specific API calls and database queries, allowing reduction of feature testing efforts by up to 25%; eventually rebuilt as a product feature
- Redesigned and developed frontend features with GWT and React for the client facing side of the core product
- Implemented customer-requested functionality from end to end - meeting with clients to discuss product design and scope, present proof of concepts and demo ready to ship features while providing development updates using JIRA

IT Client Support Specialist Intern | Ontario Securities Commission

May – Aug 2018

Toronto, ON

- Provided technical support to over 600 internal users, troubleshooting hardware/software issues
- Contributed PowerShell scripts to modify user database access rights and remotely monitor network activity
- Imaged and configured laptops, working with windows registry and BIOS to implement suitable deployment settings

Projects

Placeholder | Hack the North 2019

Sept 2019

- Web app built with React to display real-time seat availability, updated through data retrieval using Node.js and Firebase
- Raspberry Pi programmed with Python and pressure sensors used to detect and register seat availability

Biquadris

Dec 2018

- Variation of Tetris expanded for two-player competition, developed in C++ with XWindows graphics
- Utilized object-oriented design patterns including factory and observer patterns for

Education

University of Waterloo

Candidate for Bachelor of Computer Science

Expected Graduation 2022

Wilfrid Laurier University

Candidate for Bachelor of Business Administration

Expected Graduation 2022

Interests

Badminton • Learning Foreign Languages • Escape Room Games • Hiking Mountains • Creating Music Playlists • Snack Enthusiast