

Sophie Jiang

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Skills

Languages

Java, Go, Python, C, C++, SQL, JavaScript, HTML/CSS

Tools & Frameworks

Spring, JUnit, Mockito, PostgreSQL, Prometheus, React, Pulsar, Docker, Git

Experience

Splunk | Software Engineering Intern

Sept 2021 – Present

- Engineered a completely new security workflow using Java and Pulsar that allows research engineers to test and evaluate the efficacy of prospective threat detections on real-time customer data streams
- Implemented RESTful API endpoints to create and remove threat detections, integrating with a CI/CD pipeline to automate detection deployments and enable rapid experimentation
- Created architecture proposals, investigated proofs of concepts, and led discussions to determine the final designs of numerous experimental detection features

Autonomic | Software Engineering Intern

Jan 2021 – Apr 2021

- Implemented leader/follower pattern, load balancing, and other fail-over functionality using Java to support a high-availability data streaming platform for connected vehicles
- Built data storage solutions with PostgreSQL to track the activity of running servers within a cluster, publishing these solutions as SDK code samples to help new customers understand and debug their applications
- Performed load testing to identify system bottlenecks and resource requirements for scaling using Prometheus and Grafana monitoring, releasing five resource configurations and a troubleshooting guide for clients
- Refactored codebase of several services through introduction of the decorator pattern to improve code maintainability and increase overall velocity of new feature development

Index Exchange | Software Engineering Intern

Jan 2020 – Apr 2020

- Designed and prototyped new audit logging service to record ad exchange auction activity using Go, eliminating the need for any additional communication between dependent supply and demand auction services
- Developed a metrics package using Prometheus and OpenTelemetry to benchmark the performance of the new auction architecture in comparison to the previous system
- Implemented code generation and input data validation features to assist with efficient node creation in a graph representation of the auction engine, decreasing the initial setup time of a node by 60%

Shareworks by Morgan Stanley | Full Stack Developer Intern

Jan 2019 – Apr 2019

- Developed an internal logger to track specific API calls and database queries using Java, reducing manual feature testing time by 25% and eventually kept as a permanent development tool due to positive feedback
- Migrated legacy frontend components from Google Web Toolkit to React, ensuring all areas of the web product used a consistent technology stack and maintained a streamlined appearance
- Built customer-requested features from end to end by meeting with clients to discuss product designs and scope, present proofs of concepts, and demo ready to ship features

Projects

PlaceHolder | Hack the North 2019

- Developed a web app to identify open seat availability in real-time using pressure sensors and a Raspberry Pi with Python
- Updated availability in real-time through data retrieval implemented using Node.js and Firebase Realtime Database

Education

University of Waterloo

Bachelor of Computer Science

Expected Apr 2022

Wilfrid Laurier University

Bachelor of Business Administration, Concentration in Finance

Expected Apr 2022