Jiasong Liang

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Skills

- Programming Languages: Java, Python, C++, C, C#, JavaScript, Golang, Haskell;
- Development Framework: Spring Framework, ReactJS, VueJS;
- Development Tools: Git, Github Actions, Jenkins, Octopus Deploy, Docker, K8s, AWS;
- Shell Scripting: Bash, Microsoft PowerShell;
- Database Management: MySQL, Microsoft SQL Server, Postgres SQL, MongoDB, Neo4j.

Education

Sep 2017 - Dec 2021

Honors Bachelor of Science

University of Toronto Scarborough

- Computer Science Specialist Co-op Program, Software Development Stream. Minor in Statistics;
- Graduated With High Distinction.

Working Experiences

Jun 2022 - Now

Network Engineer

Huawei Canada

- Engineer high performance firewall and related services for enterprises and cloud;
- Efficiently complete development tasks with other team members or individually and create unit tests for quality benchmarks in development environment;
- Participated into multiple new features building and existing programs maintenance including but not limited to HTTP/3 encoder/decoder, web application firewalls and server load balancer that are being used multiple customers;
- *Technical Environment*: C, Bazel, CMake, Python and Lua.

Jan 2021 - Dec 2021

Teaching Assistant

University of Toronto Scarborough

- The courses I had worked for as a teaching assistant:
  - **CSCD27**: Computer and Network Security, Fall 2021;
  - **CSCC69**: Operating Systems, Summer 2021;
  - **CSCC09**: Programming on the Web, Winter 2021;
- Hosted Weekly tutorials and practical sessions with students to help them successfully complete the courses. And assisted on course grading and project improvement for the professors;

- *Technical Environment*: CTF, Crypto, OS & Network Security, C, Linux Kernel, JavaScript and MongoDB.

Sep 2020 - Dec 2020

SQL Client DBA, Co-op

Sun Life Financial

- Built and maintained the internal SQL Server Resource and Status Monitoring Service using C#;
- Collaborated with development teams to monitor, maintain a variety of SQL servers;
- *Technical Environment*: MSSQL, C#, Python, PowerShell.

Sep 2018 - Apr 2019

Co-op DevOps Specialist

Fleet Complete

- Collaborated with the development team members to speed company wide projects up in CI&CD;
- Monitored the servers of multiple environments with other DevOps team members, assisting to provide a high-available services to developers and customers;
- *Technical Environment*: Jenkins, Octopus Deploy, PowerShell, IIS, C#.

Personal Projects

QPACK Decoder

A simple utility web application to disassemble the QPACK Frames used in HTTP/3.

The web app is capable of decompressing the header lines from QPACK compression into clear text. Its internal decoder fully follows the standards defined in RFC 9204. It is implemented with Typescript and Vue3;

HTTP Server

A HTTP Server over TCP layer which can serve files from host machine.

The Server is implemented with the standard of HTTP/1.0 and 1.1 Protocol in GoLang. It supports features of HTTP/1.1 including persistent connection, pipelining and conditional get. And It is capable of handling multiple clients requests concurrently.

Fanlinc

A web app that provides platform for users to forge meaningful friendship with others who share the same interest.

The frontend of the app is implemented in ReactJS and the backend is in Java with Spring framework Maven. The app was developed in approach of agile development with a team of 6 people. It is the course project of **CSCC01**, Introduction to Software Engineering.

OctoTool

A Console App to help **Octopus** projects deployment automation setting up.

The app interacts with Octopus REST API to manipulate the projects and deployment settings. It helps when having a large number of applications or projects to deploy. It is developed using C#.