Jiasong Liang

Email Address	**royliang5@gmail.com**
Phone	647-975-8018
Address	1506-6188 No.3 Road, Richmond, BC, V6Y 0J3

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;
- Work closely with product managers to identify viable product requirements and clearly defined feature sets into well-scoped tasks for development;
- 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;
- The web app 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;
- 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 was developed based on C#;
- It 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.

Github Blog   My Personal blog hosted using Github Page built on on top of Hugo and integrated with Github Actions.

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