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

Sept 2017 - Jun 2022

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 - Jun 2025

Software Engineer

Huawei Canada

- Engineer high performance firewall framework and related services for enterprises and cloud;
- Participated into new features development including but not limited to HTTP/3 encoder/decoder, WEB application firewalls and Email Proxy that were greatly welcomed by the customers;
- Designed and Implemented multiple automated tests for various new features and different network environments, ensuring the coding quality and stability;
- *Technical Environment*: Computer Networking, C, Bazel, CMake, Python and Lua.

Jan 2021 - Dec 2021

Teaching Assistant

University of Toronto Scarborough

- Worked for multiple core undergraduate computer sciences courses:

- **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.

Sept 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.

Sept 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#.

Projects

Health Checker Internal project used for monitoring servers liveness with various network protocols.

The program provides the functionalities of monitoring the liveness of multiple remote servers through various protocols including ICMP, TCP, UDP and HTTP on top of event-driven architecture. It is implemented with C and libuv;

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.