

Chun Kit Li

Associate QA Analyst | Varicent Software Inc.

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Skills

- ◆ **Computer Languages:** Java, MATLAB, SQL, R, Pascal, C, C++, Python, Bash, MIPS, Scheme(Racket)
- ◆ **Web Development:** HTML/CSS, JavaScript, p5.js
- ◆ **Tools:** Apache Maven, Apache Tomcat, IntelliJ IDEA, PyCharm, CLion, Eclipse

Work Experience

Varicent Software Inc.

Sep. 2021 - Present

Associate QA Analyst

- ◆ Performed functional and regression testing with analysed code fix to ensure the quality of the products
- ◆ Taught development team new-hires how to use the products
- ◆ Documented the first new-hire handbook for the QA team

The Education University of Hong Kong

Sep. - Dec. 2019

IT Intern | Office of the Chief Information Officer - Student Administration Team

- ◆ Transitioned the school system's data forms for over 13 500 users by using **Java**, **XML**, and **PL/SQL**
- ◆ Helped writing technical documentation for the new system for future developers
- ◆ Researched and developed methods to increase development efficiency
- ◆ Used **Eclipse**, **Apache Tomcat**, and **Apache Maven** to manage and modify the new school system

Projects

Reliable Data Transfer Protocol 🔗

Mar. 2021

- ◆ Used **Java** to implement **reliable data transfer protocol** between users via network emulator
- ◆ Used **DatagramSocket** class to establish UDP connections between users and the network emulator
- ◆ Implemented **Packet** class for users transfer data packets via UDP connections
 - ◆ Inherited **Serializable** class for **Packet** such that data packets can receive by user correctly
- ◆ Sender sends 30 packets to receiver and receiver will respond with acknowledgment messages
- ◆ Sender resends packet after a period of time if it does not receive the corresponding message
- ◆ Network emulator will discard packets/messages from both sender and receiver by a set probability
 - ◆ Inherited **Thread** class such that network emulator can be multithreading for sending and receiving

Socket Programming

Feb. 2021

- ◆ Used **Java** to implement client and server programs for client to push/pull files to server via **TCP** sockets
- ◆ Used **Socket** class to establish TCP connection between client and server
- ◆ Client establishes a persistent TCP connection and sends a random available local port number to server
- ◆ Server establishes a non-persistent TCP connection using that random available local port number to client
- ◆ Client pushes to/pulls from server via that non-persistent TCP connection

Shallow Water Equation Animation 🔗

Nov. 2020

- ◆ Used **MATLAB** to create a 3D animation to show how shallow water moves within a given time period
- ◆ Used **Finite Volume Method** with **Lax-Friedrichs Flux** to generate numerical simulations

Education

University of Waterloo

Sep. 2016 - Jun. 2021

Honours Bachelor of Mathematics

- ◆ Major in Computational Mathematics and Statistics with Computing Minor
- ◆ University of Waterloo President's Scholarship
- ◆ Term Honours - Term Distinction (for term average with at least 80%) since Winter 2020