

# Louis Zhuo

5675 Mckee Street  
Burnaby, BC, V5J 2V2  
(604) 779-3161  
Ljbzhuo@gmail.com  
github.com/ljzee

## EDUCATION

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**Simon Fraser University** — *BSc. Computer Science (GPA: 3.3)*

September 2013 - April 2019

- Dean's Honour Roll

## PROJECTS

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**Deny & Conquer** — *Fault Tolerant Multiplayer Scribble Game (Java)*

A graphical game in which the goal is to color more area than the opponents.

- Designed dynamic host resolution algorithm to ensure game session continues even if the original server crashes (client-server model)
- Integrated multithreading on the server-side to handle TCP communication from multiple clients concurrently

**Jobs n' Stuff** — *Job Search and Post Web Application (React/GraphQL/PostgreSQL)*

A responsive SPA for employers to publish job openings and seekers to apply.

- Implemented responsive React components using React-Bootstrap
- Back-end implemented using GraphQL - Yoga to support accurate querying of PostgreSQL database
- Developed intuitive login and registration with email validation
- Wrote custom Chef recipe to configure VM for easy deployment

**Adventure of 2019** — *Text-Based Multiplayer RPG (C++)*

A client-server game which players can explore a fictional world with their friends.

- Lead development by planning and implementing project architecture
- Developed messaging system using a mailbox approach
- Used command pattern to store and process player commands

## WORK AND LEADERSHIP

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**London Drugs** — *Team Leader, Stock Person & Cashier*

June 2014 - December 2018

- Used company technologies resourcefully to solve customer concerns
- Devised and prioritized work plan for team members taking into account present challenges and individual ability
- Mentored 6 team members on efficient workflow resulted in 15% faster task completion time

## LANGUAGES & TOOLS (PROFICIENT)

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Java, JavaScript ES6, HTML, CSS, SQL

Git, Github, Eclipse, Linux/OSX CLI, VirtualBox

## LANGUAGES & TOOLS (FAMILIAR)

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C++11/C++14

React, Bootstrap, Node, Express, PostgreSQL, GraphQL, CLion, CMake, Google Test, Google Mock, JUnit, REST

## RELEVANT COURSES

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Data Structures & Algorithms,  
Software Development Methods,  
Web-based Information Systems ,  
Database Systems I & II,  
Data Communication & Networking,  
Operating Systems I,  
Distributed Systems,  
User Interface Design (UX)