


Chi (Will) Zhang

4th Year - BSc. - Computer Science Major
will.chi.zhang@gmail.com
778-887-5694  WillCZhang

Technical Skills

Languages: Java JavaScript TypeScript Golang Python C C++ Bash Ruby

Tools: Git Docker Kubernetes Istio AWS GCP Elasticsearch Postman React Markdown

Concepts: OO_Design RESTful_Design Distributed_System Android Machine_Learning SQL/NoSQL

Projects

SSC Master

2017 / 05 - Present

Keywords: **Android | Full-Stack | MongoDB | Web Crawler | Parser | Algorithm | Multithreading**

- Crawled and parsed courses data from more than 18000 websites on UBC Student Service Centre (SSC)
- Implemented an Android application using Java including both material UI design and backend system
- Implemented a full-stack web version of it using Node.js and MongoDB as backend and jQuery frontend
- Designed an algorithm storing all the data in local cache files and, using an index file, mapping them with the user inputs in the search bar, in such way, only required data were added to the application
- Used multiple threads process in Android and asynchronous in Node.js to speed up the process

Daily Planner

2019 / 05 - 2019 / 08

Keywords: **React-Redux | Meteor | Full-Stack | Scalable Server | Database Design | Algorithm**

- Designed a scalable backend so that API calls were minimized and not affected by the number of requests
- Designed an algorithm to estimate the commute time between two geolocations, achieved 95% accuracy
- Implemented a web frontend with page routing using React and Redux

Work Experience

Software Developer Intern, NetApp, Inc

2018 / 09 - 2019 / 06

Product: StorageGRID

- Extended features, monitoring performance, and fixed bugs for our distributed object storage system
- Implemented and refactored our open source S3 Compatible Storage performance measurement tool
- Configured Bamboo CI to execute nightly performance tests with infrastructure to monitor performance

Teaching Assistant (TA), Department of Computer Science, UBC

Course: CPSC 310, CPSC 210, CPSC 221

2018 / 01 - Present

- Supervising students building up a full-stack web application project as a scrum master
- Helping students apply RESTful API design principles and advanced OO design patterns to the project
- Illustrate basic algorithms (like sorting, graph) and Abstract Data Type with their common implementations

Education

University of British Columbia - Vancouver, BC, Canada

2016 / 07 - Present

Bachelor of Science, Major in Computer Science

Dalhousie University - Halifax, NS, Canada

2015 / 08 - 2016 / 04

English for Academic Purposes Program (EAP), Certification in EAP

- Achieved A+ in this 30 hours per week, 720 hours in total of academic English training program

Shandong University - Jinan, Shandong, China

2013 / 09 - 2015 / 06

General Science & Engineering, Certification in Science & Engineering

- Took two years of entry level Mathematics, Physics, Chemistry, and other university level courses
- Achieved 85+ average in science courses