

# Chi (Will) Zhang

University of British Columbia

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<https://github.com/WillCZhang>

## Technical Skills

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

Tools: Git Jenkins Bamboo Docker kubernetes Istio AWS GCP Elasticsearch Kibana Postman React Markdown

## Work Experience

### Software Developer Intern, NetApp, Inc

2018 / 09 - 2019 / 06

Product: StorageGRID

- Extended new features and fixed bugs for StorageGRID, a Distributed Object Storage platform support AWS S3 and Swift protocol
- Implemented and refactored an open source S3 Compatible Storage performance measurement tool
- Configured Bamboo CI server and Kibana for performance deployment pipeline with daily load testing
- Updated and helped designing Jira workflow to better support Agile development with scrum masters

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

Course: Software Engineering, Algorithm & Data Structure

2018 / 01 - Present

- Supervising students building up full-stack web applications and personal Java projects as a scrum master
- Teaching students RESTful API design principles and advanced OO design patterns via the projects
- Illustrating algorithms (like sorting, graph) and Abstract Data Type with their common implementations
- Helping students debugging their projects and designing their minimum viable products

## Personal 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

## Education

### University of British Columbia - Vancouver, BC, Canada

2016 / 07 - 2020 / 05 (Expected)

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

- Achieved 85+ average in all science courses

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