

Technical Skills

- Languages: **Java**, **TypeScript/JavaScript**, **Racket**, **Go***
- Environments: **JetBrains IDEs**, **Vim**, **Visual Studio***
- Testing: **Junit (& Mockito)**, **Mocha**, **Karma**
- Other applications: **SQL**, **LaTeX**, **Git** and **Hg***, **Atlassian products**
- Graphics: **Adobe Photoshop**, **InDesign**, **Illustrator**

* currently acquiring

Hackathons

Messenger Chatbot (DubHacks 2017)

10/2017 – current

- Match up ugly food sellers (e.g. farmers) and buyers nearby to address food scarcity
- Written in TypeScript transformed by Babel, hosted on Amazon AWS, MariaDB, docker

Microsoft Computer Vision App (DubHacks 2016)

10/2016

- Contributed to an app that analyzed the contents of a picture taken to generate relevant tags.

Technical Projects

Website (personal)

10/2017

- Developed and designed entirely from scratch using Javascript and Bootstrap, jQuery, HTML, CSS.

InsightUBC Query Engine (academic)

01 – 04/2017

- Built a TypeScript web app that receives UBC datasets to perform queries or scheduling tasks.
- Involved Node.js, asynchrony, data caching, REST API creation, JSON and XML parsing, UI design.

Research

UBC Networks, Systems, and Security Group USRA Student

05/2018 – present

- Conducting research under Dr. Beschastnikh on mutation testing for distributed systems.
- Analyzing distributed fault models, running experiments in order to introduce new distributed mutants.

Work Experience

FuseMail – Software Developer Co-Op

09/2017 – 04/2018

- Collaborated with team members to ensure the timely completion of projects. Resolved tickets and participated in code reviews, systematically writing clean, organized, maintainable Java code.
- Developed, documented, and tested solutions within the framework of large existing systems.
- Worked with Linux, CLIs, Git, JIRA, Crucible, SQL and databases, REST APIs, Maven.

UBC Extended Learning – Undergraduate Academic Assistant **05/2017 – present**

- Developed code examples in TypeScript, Java, and BSL; created assignments and other content to be used in a 6-part software engineering edX MOOC (massive open online course).
- Exercised a strong knowledge of good design, clear documentation, thorough testing, creativity.
- Grades student submissions and answers questions on the discussion boards (ongoing).

UBC Computer Science – Teaching Assistant **09/2016 – present**

- Interacted with students, other teaching assistants, and professors to deliver a comprehensive learning experience for an introductory computer course in a functional language.
- Lead three-hour labs and guides students in problems to discover solutions on their own.
- Graded exams and homework in an intensive course of about 1500 students over two terms.

Volunteer Experience

UBC Computer Science Students Society – Vice President External **05/2018 – present**

- Organizing the UBC Technical Career Fair; 50 exhibitors and 2000 students attending each year.
- Coordinates computer science department, various technical clubs, creative directors, and external vendors.

nwHacks – Logistics Coordinator **07/2016 – 04/2017**

- Contacted sponsors, vendors, and various personnel to secure resources; organizes logistics and event space.
- Prepares event programming and applies detailed analysis of participant experience to orchestrate Western Canada's largest hackathon with about 600 attendees.

Agora Café – Brand and Development Manager **05/2016 – 04/2017**

- Supervised and worked alongside volunteers in the daily activities of the learning café on campus.
- Delegated and managed large rushes of customers to maintain fluid operation.
- Created strategies, posters, and brand materials to attract business and advertise promotions.

Education and Awards

University of British Columbia, Computer Science **09/2015 – present**

- Science Scholar (2016)
- Trek Excellence Award for Continuing Students (2016)
- J Fred Muir Memorial Scholarship in Science (2016)
- Chancellor's Scholar Award (2015)
- Alexander Rutherford Scholarship (2015)

Interests

- Fluent in English. Conversational Chinese and French.
- Reading, writing, cooking, baking, ballroom dancing, sewing, knitting, piano, cello, painting, sketching, kerning, mechanical keyboards.