

EDUCATION

Bachelor of Arts Computer Science
University of British Columbia
 GPA: 4.20 / 4.33, CS avg: 88.8%
 Expected Graduation: May 2022

PROJECTS

joitng.github.io Personal Project
Jun 2019 - Present
 - Designed and created personal website with HTML, CSS, and Jekyll.

DDA App Personal Project
Jan 2019 - Present Code the Change
 - Coordinating with a team to create a mobile app to help people with developmental disabilities adjust to new jobs. Designed for the Developmental Disabilities Association for both Android and IOS platforms.
 - Using React Native and Javascript to implement front-end features such as buttons, forms, and headers.
 - Code the Change is a club that builds open-source software for non-profits that are unable to develop software for themselves.

Flow Hackathon Project
May 2019
 - Designed a low-cost water usage analytics system with a team of 4, using Arduino hardware and a React website.
 - Programmed and wired an Arduino to make a low-cost water meter that measured water pressure and volume as water flowed through a water sensor, and displayed information through a LCD screen.
 - Won Most Popular Vote prize at Girls in Tech Hacking for Humanity 2019

The Smokers Problem Academic Project
Mar 2019 CPSC 213: Intro to Computer Systems
 - Implemented solution to the asynchronous smokers problem and handled multi-threading and mutexes using C and pthread library.

Flood Fill Algorithms Academic Project
Feb 2019 CPSC 221: Data Structures
 - Implemented basic stacks, queues, and dequeues in C++, later using them to create breadth- and depth-first-search algorithms operating on PNGs.
 - Developed colour manipulation algorithms that performed operations on pixels based on image position or degree of colour similarity to a surrounding pixels.

Daily Journal Personal/Academic Project
Sept - Dec 2018 CPSC 210: Software Construction
 - Designed and developed a Java desktop application to store, categorize, and display journal entries.
 - Used JUnit 5 to employ test driven development.
 - Implemented a graphical user interface with Java Swing.

SKILLS

Languages

Java
 C++
 C
 Javascript*

Technologies

Arduino
 Git*
 React Native*
 SQL*

* Currently acquiring

EXPERIENCE

Teaching Assistant UBC Computer Science
Sept 2018 - Present
 - Effectively communicates introductory computer science concepts (eg. data and function design, recursion) to students without prior programming experience.
 - Prepares weekly labs, grades assignments and exams, and holds office hours.

Production Assistant UBC School of Music
Sept 2017 - Aug 2018
 - Assisted the Concerts and Communications staff and performed administrative duties such as blog updates, Excel data entry and maintenance, and poster distribution.
 - Acted as an usher or ticket receptionist at School of Music concerts.

VOLUNTEERING

nwHacks Logistics Director nwPlus
April 2019 - Present
 - Directs a team that organizes the logistical aspects of the event, such as venue and food, volunteer coordination, and participant applications.
 - nwHacks is a 24-hour, 700-person hackathon dedicated to supporting the thriving community of technology lovers in the Pacific Northwest.

2nd Year Representative nwPlus
Oct 2018 - Apr 2019
 - Acted as a Logistics Coordinator for nwHacks; responsible for issues such as wifi and food bookings, travel reimbursement applications, and making sure the event ran smoothly.

Floor Representative Totem Park Residence Assoc.
Oct 2017 - Apr 2018
 Planned, organized, and participated in events in the CSNM residence at UBC. Led a successful event in which the house council collected clothing and hygiene donations for Lookout Society, a Vancouver-based shelter organization.

HOBBIES & INTERESTS

Baking, film photography, sewing, viola, linguistics