



# Brian S. Kim

3rd Year, Computer Science Major

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Portfolio: <http://briank-git.github.io>

## Education

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2019 - Present

Bachelor of Computer Science, University of British Columbia

2012 - 2016

Bachelor of Science, Physics Major, University of British Columbia

## Projects

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### Portfolio Website

Dec 2020 - Present

Self-learned and applied HTML, JavaScript, and CSS to create a website hosted on GitHub pages for showcasing my projects. Features a widget showing local weather and temperature using the Dark Sky API as well as interactive pictures and links.

### InsightUBC

Jan 2020 - Apr 2020

Paired course project done over four Agile style sprints, each sprint requiring implementation of complex new functionality on existing code.

Applied test-driven development using Mocha/Chai to ensure specifications were met for each sprint. Mainly a backend API written in TypeScript which processed JSON queries to UBC's PAIR database and returned a filtered result as a JSON object.

User queries sent and results presented through a browser UI using REST endpoints.

Used promises and learned the concept of asynchronous programming.

### BFS/DFS Image Fills

Feb 2020 - Mar 2020

Implemented Breadth-First Search and Depth-First Search algorithms in C++ to apply a flood fill effect to any image as a data structures and algorithms course assignment.

Wrote efficient implementations of a queue and stack used in the previous algorithms.

Function objects were used to determine the fill colour of a pixel.

### WorkScheduler

Sep 2020 - Dec 2020

Self-directed Java based course project built using OOP principles such as type polymorphism and inheritance. Unit testing was done using JUnit. It is a scheduler that allows placement of employees in three shifts for each day of the week with a simple Swing GUI.

Has the ability to print a calendar for the following week and to save and load a previous session.

## Work Experience

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### **Cargo Inspector**

Certispec Services Inc., Burnaby, B.C., Canada

Jun 2017 - Sep 2019

Crew lead for quality control of bulk cargo at the Port of Vancouver.

In charge of identifying, documenting, and reporting potential quality issues for clients such as Teck and Canpotex.

Prevented potential loss of thousands of dollars of cargo by spotting a developing spill during a vessel load, stopping operations, and investigating.

### **Geophysical Assistant**

Frontier Geosciences, North Vancouver, B.C., Canada

Nov 2016 - Jun 2017

Impressed employer with calculations of geophysical parameters that were later presented to Diavik diamond mine.

Worked in teams conducting geophysical surveys for mining and civil projects in B.C.

## Volunteering

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### **Math Tutor**

Learning Buddies Network, Vancouver, B.C., Canada

Jan 2015 - Apr 2015

Acting as a student mentor I collaborated with a group of peers at Pierre Elliot Trudeau Elementary to provide weekly one-on-one sessions which aimed to improve students' basic math and social skills.

## Academic Achievements

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### **Dean's List**

2013, 2014, 2020