



## Technical Skills

- C/C++, Python, HTML, CSS, Javascript, Dart
- Git, Flutter, BeautifulSoup, Selenium, Flask, Twilio, Bootstrap, ArcGIS, MatLab
- Testing, debugging, troubleshooting, documentation
- Linux, Mac OS, Windows

## Transferable Skills

### Teamwork:

- Understands that being flexible is important in team setting
- Able to professionally and effectively communicate technical concepts

### Attitude and Character Development:

- Enjoys the process of learning difficult concepts to build resiliency
- Recognizes positivity is necessary for effective output in the workplace

## Personal Projects

### MUSIC ORGANIZER

**MAY - AUG 2022**

- Developed a computer program that helps users store songs in a playlist. Coded in C++.
- Created with a linked list to optimize both space and time efficiency as music playlist can become too large for other data structures to remain efficient.
- Included implementations such as insert, remove, and swap.
- Aided me in learning how to effectively test for edge cases and debug code to maximize robustness

### HOSPITAL BOT

**MAY - JUN 2022**

- Created a texting chat bot that allows users to text their address to a bot. The bot then texts back the locations of the closest hospitals as well as their wait times. Coded in Python.
- Used web scraping tools, Selenium and BeautifulSoup to extract the needed information from the hospital wait time website.
- Combined Twilio with Flask, Unicorn, and Heroku to deal with the server side and the communication from user to bot.
- Aided in learning about server side programming, as well as web scraping

## Technical Projects/Experiences

### DATA STRUCTURES & ALGORITHMS COURSE CMPT225 DATA STRUCTURES & ALGORITHMS I

**SEP - DEC 2022**

- Utilizing common data structures to create meaningful abstract data types in C++.
- Analyzing common algorithms and applying them effectively.
- Optimizing time and space efficiency for large data sets.

### TSP SOLVER CMPT125 INTRODUCTION TO COMPUTER SCIENCE & PROGRAMMING II

**JAN - MAY 2022**

- Programmed an algorithm to solve the NP-complete Traveling Salesman Problem. Coded in C++ with a focus in OOP.
- Implemented by using a smallest increase heuristic to determine which path to take in each iteration.
- Allowed me to learn how to be both efficient and accurate in applying coding algorithms to math related problems.



## Technical Projects Continued.

### IMAGE PROCESSOR CMPT120 INTRODUCTION TO COMPUTER SCIENCE AND PROGRAMMING I

SEP - DEC 2020

- An image editing tool that takes in an image and alters the image according to user commands. Coded in Python.
- Created implementations such as inverting, rotating, brightness, filters, pixelation, and binarizing.
- Assisted in understanding how the computer perceives images as a combination of RGB pixels, and how altering different aspects of it leads to different outcomes. Earned a 90% on the project.

## Current Work Experience

### SOFTWARE DEVELOPER INTERN DIASTOLIC ROBOTICS INC., VANCOUVER, BC

JAN 2023 - CURRENT

- Working on both frontend and backend of both app/web development which shows flexibility in skills
- Creating a brand new website with HTML, CSS, Javascript using the Bootstrap 5 framework
- Designing, coding, and testing medical apps with the use of Flutter SDK to deploy both on Android and iOS

## Other Work Experience

### SERVER/COOK BOILING POINT, VANCOUVER, BC

JUN 2021- MAR 2022

- Worked as both a server and cook demonstrating flexibility in different roles.
- Trained new recruits which indicates a high level of trust and accountability
- Earned an Employee of the Month Award for always maintaining an uplifting attitude.

## Volunteer/ Extracurricular Experience

### DIRECTOR KILLARNEY ROBOTICS TEAM(HIGHSCHOOL ROBOTICS TEAM), VANCOUVER, BC

SEP 2019 - JUN 2020

- Built a fully remote controlled robot to participate in the 2020 FIRST Robotics Competition in Victoria B.C.
- Managed a Krispy Kreme fundraiser across multiple locations across Richmond, Vancouver, and Burnaby which raised over \$600 to help with robotics funds.
- Drafted a sponsorship proposal to First Robotics which helped obtain \$6000 in parts for the robotics team

### STAFF CADET INSTRUCTOR 888 AVENGER SQUADRON AIR CADETS, VANCOUVER, BC

SEP 2014 - JUN 2019

- Taught basic aviation components and leadership to younger cadets through interactive lessons which helped them build their discipline, and knowledge on aviation.
- Planned a weekend long camp for cadets to learn about survival, range, and search & rescue which helped them pass their level assessments.

## Education

### BACHELOR OF APPLIED SCIENCE IN COMPUTING SCIENCE WITH A BUSINESS MINOR, SFU

SEP 2020 - PRESENT

- Simon Fraser University, Burnaby, BC

## Interests

### PIANO

Grade 10 piano

### READING

7 Habits of Highly Effective People

### HIKING

Panorama Ridge