Ronney Lok (he/him)

Vancouver, BC | 778-322-7808 | rla121@sfu.ca | www.linkedin.com/in/ronneylok

Technical Skills

- C/C++, Python, HTML, CSS, Javascript, Dart
- Git, Flutter, Beautiful Soup, 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**

- o Developed a computer program that helps users store songs in a playlist. Coded in C++.
- o 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.
- o Aided in learning how to effectively test for edge cases and debug code to maximize robustness

HOSPITAL BOT   **MAY - JUN 2022**

- o 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.
- o Used web scraping tools, Selenium and BeautifulSoup to extract the needed information from the hospital wait time website.
- o Combined Twilio with Flask, Gunicorn, and Heroku to deal with the server side communication
- o 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**

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

TSP SOLVER   CMPT125 INTRODUCTION TO COMPUTER SCIENCE & PROGRAMMING II   **JAN - MAY 2022**

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

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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

- Creating both iOS and Android medical apps through the Flutter SDK and successfully launching them.
- Developing medical web applications with HTML, CSS, Javascript with use of the BootStrap 5 framework.
- Testing, and applying numerical analysis concepts in code to approximate data used for medical applications.

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	READING	HIKING
Grade 10 piano	7 Habits of Highly Effective People	Panorama Ridge