Ronney Lok (he/him)



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

Technical Skills

- Python, C/C++
- Git, Beautiful Soup, Selenium, Flask, Twilio API, Google Maps API, 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++.
- 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 Included implementations such as insert, remove, and swap.
- o Aided me 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.
- Used web scraping tools, Selenium and BeautifulSoup to extract the needed information from the hospital wait time website.
- Used Google Maps API to obtain distance information would would be used to calculate distance from user to the hospital
- o Combined Twilio with Flask, Gunicorn, and Heroku to deal with the server side and the communication from user to bot.
- Aided me in learning about the server side of programming, web scraping, as well as employing the help of API's to obtain information.

Technical Projects/Experiences

DATA STRUCTURES & ALGORITHMS COURSE CMPT225 DATA STRUCTURES & ALGORITHMS I

SEP - PRESENT

- 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

- 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.
- 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 CMPT 120 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.
- o Created implementations such as inverting, flipping, rotating, brightness, filters, pixelation, and binarazing.
- Helped me understand 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.

Other Work Experience

SERVER/COOK BOILING POINT, VANCOUVER, BC

Iun 2021- Mar 2022

- o Worked as both a server and cook demonstrating flexibility in different roles.
- o Trained new recruits for both the front and backend of the restaurant.
- o Earned an Employee of the Month Award for always maintaining an uplifting attitude.

SEASONAL ASSOCIATE HARRY ROSEN, VANCOUVER, BC

DEC 2019 - JAN 2020

- o Assisted experienced sales advisors which helped me develop professional etiquette.
- Worked in different teams every week, which allowed me to gain an understanding of how a clothing store runs.
- o Developed resilience from working long 12 hour shifts on the floor during holiday season.

Volunteer/ Extracurricular Experience

LOGISTICS DIRECTOR KILLARNEY ROBOTICS TEAM (HIGHSCHOOL ROBOTICS TEAM), VANCOUVER, BC SEP 2019 - Jun 2020

- Worked with peers to create a 100 pound robot to participate in the 2020 FIRST Robotics Competition in Victoria B.C.
- o Managed a Krispy Kreme fundraiser across multiple locations across Richmond, Vancouver, and Burnaby which raised over \$600 to help with robotics funds.
- o Planned the design of the robot and coordinated with the local highschool community to borrow tools for welding and putting the robot together.
- $\circ\,$ 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

o Simon Fraser University, Burnaby, BC

Interests

PIANOREADINGHIKINGGrade 10 piano7 Habits of Highly Effective PeoplePanorama Ridge