Alex Blackwell

https://alex0blackwell.github.io/

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Vancouver, B.C. Canada

EDUCATION

- **Simon Fraser University** — Burnaby, B.C. Canada
  Computing Science; GPA: 3.73 — *September 2019 – present*

OVERVIEW

- **Dean's Honour Roll**: Simon Fraser University, Faculty of Applied Sciences

- **Simon Fraser University Open Scholarship**: Scholarship for academic achievement

- **Simon Fraser Hacking and Cybersecurity Club**: Member of the club since September 2019

- **System Hacks 2020 Hackathon Participant**: Participated in twelve-hour hackathon

PROGRAMMING SKILLS

- **Languages**: Python, Javascript, C, C++

- **Technologies**: HTML/CSS, GNU/Linux, Git, Unix command line, node.js, LaTeX

PERSONAL PROJECTS

- **Python Projects**
  - **Virtual Assistant**: A voice-driven bot using the Google Web Speech API with features such as conversational responses and setting timers.
  - **Photo Resizer**: Takes all the images in a folder and resizes them to a given width. These resized images are then exported to a new folder.

- **JavaScipt Projects**
  - **Discord Bot**: Discord bot implemented in node.js using the Discord API. This bot includes features such as card games, and streaming music into a Discord server's voice channel using the youtube-dl (YTDL) API.
  - **QR-Code Converter Chrome Extension**: Takes pasted text content and converts it into a QR-code to be displayed in the extension's window.

- **C/C++ Projects**
  - **ADT/Data Structure Implementations**: In both C and C++, have implemented: linked lists, stacks, queues, and binary search trees.
  - **Sorting**: In both C and C++, have implemented: selection sort, insertion sort, mergesort, and quicksort.

WORK EXPERIENCE

- **Skate Instructor** — *Winters of 2016 – 2019*
  North Vancouver Recreation Commission, North Vancouver, B.C.

- **Park Ambassador** — *Summers of 2016 – 2019*
  Capilano Suspension Bridge Park, North Vancouver, B.C.