

# Alex Blackwell

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Vancouver, B.C. Canada

## ACHIEVEMENTS

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- **Dean's Honour Roll:** Simon Fraser University, Faculty of Applied Sciences, Spring 2020
- **Simon Fraser University Open Scholarship:** Scholarship for academic achievement
- **Second place in Simon Fraser Coding Competition:** Hosted by S.F.U. competitive programming club
- **Google Kickstart Top 35 in Canada:** Google Kickstart Coding Competition 22/08/2020
- **Simon Fraser Hacking and Cybersecurity Club:** Learning ethical penetration testing on Kali Linux

## TECHNICAL SKILLS

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- **Languages:** C++, Python, JavaScript, C
- **Technologies:** HTML/CSS, Git, Unix command line, jQuery, React, Node.js, Continuous Integration, Jest Testing framework
- **Applications:** GitHub, GitLab, Unity, Adobe Suite, Microsoft Office Suite, VIM, L<sup>A</sup>T<sub>E</sub>X, WordPress, Jekyll
- **Operating Systems:** GNU/Linux (Manjaro, Ubuntu, Kali), Windows, MacOS

## PERSONAL PROJECTS

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- **Python Projects**
  - **Desktop Application – “Copy Paste Anything”** ([code link](#)): Utilizing a Python GUI, a screen snip is taken and, using a computer vision algorithm, the text is extracted and copied to the clipboard.
  - **Terminal command – “Tree”** ([code link](#)): Developed recursive algorithm for traversing and displaying the file structure from the current working directory.
- **JavaScript Projects**
  - **Website – “Merge Sort Visualizer”** ([code link](#)): Programmed a responsive and scalable Bootstrap website with asynchronous JavaScript capable of visually representing the process of a merge sort algorithm.
  - **Browser Extension – “QR-Code Generator”** ([code link](#)): Worked in a team to develop a browser extension during System Hacks 2020, a twelve hour Hack-a-thon.
- **C++ Projects**
  - **Terminal Application – “CSS Minifier”** ([code link](#)): Developed an efficient algorithm capable of producing equivalent code with a lesser file size, thereby increasing the speed of website loading times.
  - **Data Structures** ([code link](#)): Implemented binary search tree, singly linked list, queue, red black binary tree, stack, double ended queue, and binary heap to better understand the abstractions of common data structures.

## EDUCATION

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

## TECHNICAL WORK EXPERIENCE

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- **Freelance Website Developer** *Summer of 2020 - Fiverr, Remote*
  - Worked with clients to develop professional websites which started companies and built online presence.
  - Delivered high quality products to clients ahead of schedule, earning an overall rating of five stars.
  - Used Bootstrap, JavaScript, HTML/CSS, Git, WordPress and Jekyll.

## OTHER WORK EXPERIENCE

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- **Skate Instructor** *Winters of 2016 – 2019*  
*North Vancouver Recreation Commission, North Vancouver, B.C.*
  - Responsible for teaching children a new skill by clearly communicating and adapting to areas of struggle.
- **Park Ambassador** *Summers of 2016 – 2019*  
*Capilano Suspension Bridge Park, North Vancouver, B.C.*
  - Accountable member of a team that interacted with guests to improve customer experience.