



CALLUM BARKER

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SKILLS

TECHNICAL

- Languages/Frameworks: **C/C++**, **Python**, **CSS**, **HTML**, **React/JSX**
 - Familiar With: **JavaScript**, **C#**
- Operating Systems: **Windows**, **Linux**, **OS X**
- Tools: **Microsoft Visual Studio**, **Github/Gitlab**, **Sublime**, Adobe Photoshop, Microsoft Word, Powerpoint

TRANSFERABLE

- Strong verbal and written communication
- Focussed work ethic and highly punctual
- Effective problem solving
- Organized and detail oriented
- Self managing
- Time management

ACADEMIC PROJECTS

FLIXLIST WEB APP

03.2021

Introduction to Software Engineering (CMPT 276)

- Developed a web app using React/JSX, HTML, CSS, and MongoDB in a team of 5 students to allow users to search, rate, and review movies and share these reviews with friends
- Retrieved movie information using RapidAPI Movie Database API
- Worked in an Agile environment with teammates using weekly sprints and continuously integrated work to Gitlab

HEAPSORT

11. 2020

Data Structures and Programming (CMPT 225)

- Implemented an array-based heap and heapsort using C++, resulting in a perfect grade
- Applied the concept of object-oriented programming to produce organized and reusable code

PERSONAL PROJECTS

PORTFOLIO

03.2021

<http://cbarkr.com>

- Created a responsive website using React/JSX, HTML, and CSS to display my projects
- Deployed website using AWS

PATHFINDING VISUALIZER

01. 2021

<https://github.com/cbarkr/pathfindingvisualizer>

- Produced a functional visualizer of A*, Dijkstra, and BFS pathfinding algorithms in python in which the shortest path between nodes is displayed to the user
- Modeled the behaviour of the algorithms in an interactive Pygame window, allowing users to select start, end, and barrier nodes
- Utilized Pygame menu to create a simple UI in which the user selects options such as algorithm and amount of random barrier generation, as well as displaying instructions and results if prompted



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WORK HISTORY

BOYS AND GIRLS CLUB – LADNER, BC

02. 2019 – 09. 2020

Activity Leader

- Planned and carried out activities involving the supervision of large groups of children inside and outside the work facility
- Created a comfortable environment by maintaining a positive attitude and building relationships with each child
- Exercised patience, empathy, and attentiveness to the groups under my care
- Acquired important teamwork and leadership skills

LONDON DRUGS – LADNER, BC

06. 2017 – 07. 2018

Photo/Electronics Specialist – Sales

- Ensured excellent customer experiences by greeting customers, assisting with their needs, and completing transactions with a smile
- Communicated effectively with clients to provide knowledgeable insight and professional customer service
- Identified and resolved issues with customers computers, mobile phones and other technology
- Pinpointed client needs, asked appropriate questions for clarification, and produced valuable solutions in a timely manner

EDUCATION

SIMON FRASER UNIVERSITY

09.2019 – Present

BSc Computer Science

- Expected graduation in 2024

INTERESTS



Graphic Design



Camping/hiking



Photography



Soccer