**Sparsh Trivedy**

Year 2, Computer Science Major

604-727-1576

[sparsh.trivedy2140@gmail.com](mailto:sparsh.trivedy2140@gmail.com) [github.com/sparshtrivedy](https://github.com/sparshtrivedy)

**Technical Skills**

**Programming:** Java, C++, JavaScript\*, Python, R\*, C

**Web:** HTML/CSS, React.js

**Tools/Framework:** GitHub, Git

**Testing:** Junit, GDB, Valgrind

\* currently acquiring

**Technical Projects**

**Image Recognition Web Application - Personal** Apr 2022

* Developed a frontend application in React.js that recognizes the object in the image URL entered by the user and displays the top 5 results.
* The image recognition functionality was added by making use of a machine learning API.

**Image Partitioning Trees - Academic** Mar 2022

* Constructed a PTree, a binary tree whose nodes represent rectangular regions of a PNG image and implemented the render function to construct a PNG from the tree.
* Implemented the Prune function which attempts, starting near the top of a freshly built tree, to remove all descendants of a node, if it meets the specified criteria.
* Implemented two additional functions to flip the PTree horizontally and vertically.

**CSS Gradient Background Generator - Personal** Jan 2022

* Developed an application that generates the CSS code for the chosen gradient type and colours. The user also gets to see a demo of the chosen gradient.
* Used this application to create a background for other projects.
* Technologies: JavaScript, HTML, CSS

**Café Kiosk - Academic** Sep-Dec 2021

* Developed an interactive coffee ordering application in Java with a graphical user interface using the Java Swing library.
* Implemented functionality that allows a user to order multiple customized drinks, generate bill, check order summary, and keep a log of when a drink was added or removed from the cart.
* Refactored JSON reader and writer classes to enable save and load functionality in the application.

**Personal Portfolio Website - Personal** Dec 2022

* Developed a basic personal website to display my work, using HTML and CSS. This project was my introduction to web development.

[Website link](https://sparshtrivedy.github.io/sparshtrivedy/website/index.html)

* **Creatica Hackathon**  Apr 29 - May 1

**Education and Work Experience**

**University of British Columbia, Vancouver, BC**

Bachelor of Science, Computer Science Major Sep 2020 - present

Cumulative average: 83.4%

University of British Columbia, Vancouver, BC

**Outstanding International Student Award, 2020**

**Browns Crafthouse-UBC, Vancouver, BC** Starting May 2022

Pizza Support cook/dishwasher

**Interests**

Tabla, Swimming, Sketching