

# Sparsh Trivedy

Year 2, Computer Science Major

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[personal website](#)

[github.com/sparshtrivedy](https://github.com/sparshtrivedy)

## Technical Skills

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

**Web:** HTML, CSS, React.js, Node.js, Express, PostgreSQL

**Tools:** GitHub, Git, Bootstrap, GDB, Valgrind, pgAdmin, Postman, Postbird

**Testing:** JUnit, Mocha

## Technical Projects

### Personal Budget API – Personal

Aug 2022

- Developed a REST API that is used to keep track of an individual's personal budget.
- Implemented a relational database using PostgreSQL with two tables – (1) keeps track of the budget categories and their balances (2) keeps records of all transactions between the budget categories.
- Implemented the server using Express that handles the HTTP requests.
- Connected the server and the database using node-postgres.

### Vibing – Personal

Jul 2022

- Developed a front-end application that allows a user to browse songs, add them to a playlist and save it to Spotify.
- Implemented this functionality was added using the Spotify API.
- Enabled functionality that allows users to rename their playlist and make changes to the playlist before saving it to Spotify.

### Note-Maker – Personal

May 2022

- Developed an app using React.js that sends the topic for notes as plain text prompts to OpenAI API and displays the results in a list.
- Implemented a form for entering topic which on submitting displays a log of results in a list, sorted from newest to oldest.

### Image Partitioning Trees – Academic

Mar 2022

- Constructed a binary tree (PTree) to represent an image. The nodes of the PTree represent rectangular regions of a PNG image.
- Enabled operations that prunes the PTree, resulting in a more pixelated image.

- Implemented functions to flip the PTree both horizontally and vertically and a render function to observe the effects of these operations on the actual image.

#### **Café Kiosk – Academic**

Dec 2021

- Developed an interactive coffee ordering application in Java with a GUI 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.
- Enabled save and load functionality using an API.
- Implemented with software design principles in mind and tested using JUnit.

## **Education**

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

Bachelor of Science, Computer Science Major

Sep 2020 - present

Cumulative average: 83.8%

University of British Columbia, Vancouver, BC

**Outstanding International Student Award, 2020**

## **Work & Volunteer Experience**

#### **Science Undergraduate Society UBC, Vancouver, BC**

Jul 2022 – Current

Academic Experience Coordinator

- Work to enhance the academic experience of undergraduate students in the faculty of science at UBC.
- Responsible for organizing faculty wide surveys, tutoring and group study sessions.

#### **Browns Crafthouse UBC, Vancouver, BC**

May – Jun 2022

Prep-cook and dishwasher

- Work in small teams where effective communication is essential.
- Adapted to a busy work environment where people depend on me to stick to deadlines.
- Learnt to deal with unexpected rushes/situations.

## **Interests**

Reading, Tabla, Swimming, Sketching, Cooking