Sparsh Trivedy

Year 2, Computer Science Major
604-727-1576

sparsh.trivedy2140@gmail.com   personal website   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 then 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. link

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