Sparsh Trivedy
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Technical Skills

- **Programming:** Java, C++, C, C#, JavaScript, TypeScript, SQL, Python, R
- **Front-End:** HTML, CSS, React.js, Redux
- **Back-End:** Node, Express.js, PostgreSQL, .NET, Entity Framework
- **Tools:** Git, Bootstrap, pgAdmin, Postman, Postbird, Azure Data Studio, Docker, Swagger
- **Testing:** JUnit, Mocha, Jest, xUnit

Work Experience

BGC Engineering Inc, Vancouver, BC Sep 2022 - present
Web Developer Co-op

- Full-stack development in TypeScript and React on the front-end, and C# and .NET on the back-end. Some of the exciting work I've done includes:
- Developed an "Instrument Reading Attribute Table" to display all data associated with Instrument Readings
  - Created GET and POST endpoints to fetch and update data in the table as new readings were added, updated, and deleted through the associated forms.
  - Created a DB view using SQL scripts, joining several tables and created a corresponding data model with all the columns required for the table.
  - Performed data seeding for the attribute table using Entity Framework migrations.
  - Added quick actions for filtering table, zooming to specified instrument location, downloading table data as PDF, viewing/editing selected reading.
- Created copy modal pop-up for adding new inspections
  - Implemented the front-end (in React.js) for the modal that allow users to add inspections to a strain feature and copy data from an existing inspection.
  - Created endpoint to filter the client's strain features dropdown by keyword.
  - Implemented the copy inspection service for copying data from existing inspections.

Technical Projects

WoodWorks – Personal Jan 2022

- Developed a full-stack e-commerce website with a product catalog and shopping cart, using TypeScript, React and Redux on the front-end and C# and .NET on the back-end.
- Created API controller for the products and shopping cart, including end-points for GETing products, GETing all basket items, POSTing new basket items and putting (updating) basket items.
- Implemented product details cards from where product details and quantity in the cart can be viewed and updated.
- Created DB schema for the products, basket items and shopping cart using code-first approach of Entity Framework (EF) migrations.

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.js 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 using the Spotify API.
- Enabled functionality that allows users to rename their playlists and make changes to their playlist before saving it to Spotify. link

Note-Maker – Personal May 2022

- Developed a web 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 that allows user to enter a topic which on submitting displays a 5-point summary of the topic and a log of all results, sorted from newest to oldest.

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.

Volunteer Experience

UBC Rover Engineering Design Team, Vancouver, BC Sep 2022 – present
Software Team Member

Science Undergraduate Society UBC, Vancouver, BC Jul 2022 – present
Academic Experience Coordinator

UBC Design League, Vancouver, BC Sep 2022 – present
Web Developer

Education

University of British Columbia, Vancouver, BC Sep 2020 - present
Bachelor of Science, Computer Science Major
Cumulative average: 83.8%
Outstanding International Student Award, 2020

Interests

Reading, Tabla, Swimming, Sketching, Cooking