

TRISTAN JAGAN

FULL-STACK SOFTWARE ENGINEER

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QUALIFICATIONS

- **Frontend:** TypeScript, JavaScript, React, SASS, Material UI, HTML, CSS, Chart.js, React Router
- **Backend:** Node.js, Express, SQL, MySQL, Knex, Sanity, Axios, Bcrypt
- **Tooling:** Git, Jira, REST APIs, Agile Development, User Authentication (JWT), GitHub, GitLab

PROJECTS

Creator | [Portfolio Sphere](#)

April 2023

- Full-stack application created to help investors keep track of all their holdings in one place by allowing users to create accounts and login using **JWT** for authentication and **Bcrypt** for password hashing
- Ability to perform all **CRUD operations** to update their portfolio holdings as they buy/sell holdings with all of the data being stored in a **MySQL** database that was queried using **Knex**
- Featured a dashboard built using **Chart.js** to display key insights to the user about their portfolio's holdings and performance
- Leveraged a **Node.js (Express)** server as a proxy to fetch real-time data every 5 minutes from the CoinMarketCap API

Lead Developer | BrainStation Cross Discipline Hackathon

March 2023

- Led two UX/UI designers, one data scientist, and one software engineer to create an innovative online grocery solution for Loblaw's Digital in 24 hours
- A single-page application **React** website built using **SASS** to help speed up the development to match the high-fidelity mockups
- Built out functionality for users to dynamically add items, edit their carts, and checkout using **JavaScript**
- Created a **MySQL** database to store the current cart as well as past orders which allowed for backend logic on a **Node.js (Express)** server to recommend items to the user that were more similar to their previously placed order

WORK EXPERIENCE

Freelance

Software Developer

Toronto, Ontario

July 2023 – Present

- Developed the website for TFK Athletics Performance, increasing potential leads using social proof by integrating Google Reviews, a contact form which uses **Axios** to communicate with **RESTful** APIs to send the information directly to my client's Gmail account, and a clear and concise layout designed using **Material UI**
- Created website using **function-based React** integrating built-in hooks such as **useState** to ensure that forms were controlled components as well as implementing **React Router** for site navigation
- Prioritized building out the codebase to be organized in a manner that allows for easier code maintainability and future updates such as using a constants folder for hardcoded values such as social links, footer information, descriptions, etc.

BrainStation

Teaching Assistant, Software Engineering

Toronto, Ontario

April 2023 – June 2023

- Conducted code review, grading, and provided feedback on weekly assignments for a cohort of 26 students
- Reinforced student learning by leading technical whiteboarding challenges, quizzes, daily and weekly check-ins, and review sessions
- Offered personalized mentorship and guidance on a 1-on-1 basis to each student in order to support and enhance their development

Manulife Investment Management

Investment Analyst, Venture Capital (Co-op)

Toronto, Ontario

May 2022 – August 2022

- Engaged in pitch meetings with prospective B2B Software-as-a-Service (SaaS) startups and venture capital funds
- Performed in-depth diligence on existing portfolio companies and 17 potential investment opportunities
- Prepared investment memos analyzing go-to-market strategy, founding team capabilities, total addressable market, performance metrics, deal sourcing networks, competitive landscape, ESG policies, and precedent transactions

EDUCATION

BrainStation

Diploma, Software Engineering – 4.0 cGPA

Toronto, Ontario

January 2023 – April 2023

University of Waterloo

Bachelor of Accounting and Financial Management – 3.9 cGPA

Waterloo, Ontario

September 2018 – December 2022

- Dean's Honours, President's Scholarship of Distinction