

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, WordPress

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

- Built a **WordPress** website designed to be informative, user-friendly, and engaging for a solopreneur who runs a social media management business, Create with Hope, and has a vegan lifestyle page with over 30K followers on Instagram
- 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

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, weekly check-ins, and review sessions
- Offered personalized mentorship and guidance on a 1-on-1 basis to students 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

Selected Transactions

- New investment in a Canadian growth private equity fund focused on B2B enterprise software and software-enabled businesses
- Follow-on investment in an American software company facilitating the digital recordkeeping of retirement savings plans

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National Bank Financial (NBF)

Investment Banking Winter Analyst (Co-op), Global Mining & Metals

Toronto, Ontario

January 2022 – April 2022

- Provided financial advisory to strategic clients on sell-side mandates, buy-side processes, and formal valuations
- Managed internal databases including comparable companies, precedents, discounts, and price forecasts

Selected Transactions

- Sell-side advisor to Nomad Royalty on its potential sale (EV: C\$750+ million)
- Sell-side advisor to a global gold producer on the potential sale of one its largest assets in South America
- Buy-side advisor to a streaming & royalty company on the potential acquisition of a competitor

Royal Bank of Canada (RBC)

Risk Analyst (Co-op), Global Anti-Money Laundering (AML) Program Management

Toronto, Ontario

January 2021 – April 2021

- Analyzed 170 fines greater than \$1M USD issued over the past decade to other financial institutions by various global regulators to identify deficiencies in their AML programs and present a recommendation for RBC's internal program
- Worked alongside Senior Manager of Finance to co-ordinate VPs' feedback to prepare the budget for the AML program for the upcoming 2022 fiscal year helping reduce the workload of the manager by over 35%
- Streamlined the process of locating documents for the upcoming FINTRAC examination by creating a master document outlining the locations of over 1,500 files resulting in a reduction of time spent searching by 25 hours

Ernst & Young (EY)

Staff Accountant (Co-op) – Audit, Financial Services Organization

Toronto, Ontario

January 2020 – April 2020

- Applied extensive knowledge of a variety of business applications to improve efficiency of comprehensive financial statement audits; exercised strong client-service and analytical abilities to develop audit conclusions
- Built a MS Excel Macro to identify high-risk balance sheet and P&L accounts, driving process efficiency and heightened level of assurance by highlighting differences and allowing for a seamless follow-up process resulting in 0 major audit differences
- Liaised with clients to present findings from audit work, performed walkthroughs with CFO of a Broker/Dealer firm to better understand the controls in place and ensured accurate documentation of them making it easier for seniors to perform the audit

EDUCATION

Google Cybersecurity Professional Certificate

June 2024

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*