

Harsohail Brar

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Languages: **Expert:** Java, JavaScript, Python, **Proficient:** TypeScript, **Prior-Experience:** C/C++
Technologies: React, Redux, Express.js, Flask, FastAPI, MySQL, PostgreSQL, MongoDB, Docker, Git

WORK EXPERIENCE

Software Development Co-op Student, Cenovus Energy September 2020 – Present

- Developing an end-to-end project delivery web application using **ReactJS** and Microsoft's **SharePoint REST API** for designing and monitoring project models across business units.
- Constructing automated builds and deployments using **GitHub Actions CI/CD** to reduce deployment times.
- Developing and maintaining existing project delivery model platforms built using **jQuery**.
- Increased user feedback by automating the feedback service using **Microsoft Power Automate** by 30%.

EDUCATION

Bachelor of Science in Software Engineering, University of Calgary September 2017 – Present

- GPA: 3.79, Schulich School of Engineering Dean's List
- Relevant Coursework:
 - Object-Oriented Programming, Databases, Software Architecture, Data Structures and Algorithms, Computer Networks

Bachelor of Commerce, University of Calgary September 2017 – Present

- Haskayne School of Business Dean's List
- Dual Degree Stream

PROJECTS

ticker-symbol-search *ticker-symbol-search.vercel.app* Personal Project

- Built a lightweight node package using **React + Typescript** that offers UI, hooks, and types for the end-users to simply import into their web apps.
- Provides live ticker symbol data from various markets such as stocks, futures, forex, cryptocurrencies, etc.

Jambo Apparel *jamboapparel.com* Personal Project

- Developed a proprietary e-commerce store for the non-profit organization Jambo Apparel to lower operating costs incurred by platforms such as Shopify.
- **ReactJS** and **Redux** were used for front-end development, **ExpressJS** as an authentication middleware, **Stripe** for managing payments, **FaunaDB** as the database, and **PrintifyAPI** for supplier and shipping data.

TLreaDR Course Project

- A platform for users to share summarized news articles for discussion and stay up to date on current affairs.
- Developed REST APIs on the backend team using **Flask** and **Docker** as microservices with scalable architectures such as **CQRS** and **event sourcing**.
- Streamlined **PostgreSQL** database migrations using **Alembic** which was hosted on **AWS RDS**.

ACHIEVEMENTS

CalgaryHacks Full Stack Hackathon / Competition

- Awarded **Best UI/UX in Tier 1** of the competition with over 700 participants and over 150 submissions.
- Developed a platform in 24 hours that allows individuals to delegate their errands to our application's employees to limit the spread of COVID using **ReactJS**, **Express.js**, and **MongoDB**.

ASEC Hackathon Data Science Hackathon / Competition

- Awarded **1st place** in the data science analytical competition to solve the industry problem presented.
- Preprocessed given datasets and created data pipelines using **Pandas** to prepare data for our machine learning models.
- Pair-programmed machine learning models using **Scikit-Learn** and **TensorFlow** to get an introduction to the technologies.