

Harsohail Brar

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Education

University of Calgary

Bachelor of Science in Software Engineering

- Schulich School of Engineering Dean's List

September 2017 – May 2023

University of Calgary

Bachelor of Commerce

- Haskayne School of Business Dean's List

September 2017 – May 2023

Dual Degree Stream

Skills

Languages: Expert: JavaScript, TypeScript, Python, HTML, CSS Proficient: Java, SQL Prior-Experience: C/C++

Technologies: React, ExpressJS, NodeJS, Flask, FastAPI, PostgreSQL, NoSQL, Docker, Git, AWS

Experience

Cenovus Energy

Software Development Co-op Student

September 2020 - August 2021

Calgary, Canada

- Developed 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.
- Constructed automated builds, deployments, and dependency caching for the application in **GitHub Actions CI/CD** with **bash** and **YAML** to reduce deployment times by over 50%.
- Followed **agile principles** and performed bi-weekly sprints for the development of the application.
- Selected as **one of 10 interns out of 250** to present the project to the **CEO** and **COO** of the company and show the business value added.

Projects

Jambo Apparel

jamboapparel.com

- 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

github.com/TLreaDR

- 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.