

Shaishav Shah

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Education

University of Alberta

Sep. 2020 – May 2024

Specialization in Computing Science — Business Minor; GPA: 4.0/4.0

Edmonton, Alberta

Relevant Student Groups:

- Students for Machine Learning in Business — Director of Programming
- Algorithmic Trading Club — Member

Experience

Discover Coding

May 2021 – Sep 2021

Coding Instructor

Edmonton, Canada

- Strengthened **programming fundamentals** of students by delivering HTML, CSS, and JS lessons, receiving outstanding student-parent satisfaction.
- Designed and deployed an **app creation** course to the company website, allowing for an **interactive experience** for students while learning digitally.

Projects

Project Builder - Web App & Social Platform

August 2021

- Leveraged **JWTs** to create a **client-side authentication** solution, securing the application and providing **persistent sessions** for users.
- Practiced **Test-Driven Development** by **designing unit tests** for all endpoints using **Jest**, verifying code meets quality standards.
- Implemented a **RESTful API** in **Express.JS** to handle **client-side requests**, allowing users to create, delete, comment, and like user-shared projects.

Algorithmic Crypto-Bot

August 2021

- Developed a bot using **Python** and **CCXT** to identify cryptocurrencies for bullish / bearish candlestick patterns, resulting in an average 22% APY.
- Leveraged **Twilio** to **generate text message alerts**, allowing for users to be alerted via text.
- Deployed an **EC2** instance to run on **AWS**, **automating** the hourly analysis with Cron.

Memories - Web App

October 2021

- Developed a **full-stack web application** using **React** and **Material-UI**, allowing for users to experience a consistent and responsive design.
- Implemented **Redux** with **FLUX design patterns** for updating the application state, keeping code predictable between client and state interactions.
- Deployed front-end on **Netlify** and server on **Heroku** to deploy and manage the application.

Stock Widget

October 2020

- Constructed a **Graphical User Interface** using **object-oriented Python** to display the latest stock data requested by clients
- Labelled stock data by **scraping HTML** from finance websites with BeautifulSoup 4.

Technical Skills

Languages: Python, C, C++, JavaScript, SQL, MongoDB, Express.JS

Front-End: HTML, CSS, JavaScript, React.JS, Redux

Developer Tools: VS Code, Git, Linux / Unix Environment, Android Studio, Heroku, Netlify, EC2 AWS

Learning: ASP.NET, Vue.JS, Angular.JS