

# 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

### Niricson Software Inc.

May 2022 – Aug 2022

*Full Stack Software Engineer Intern*

*Victoria, Canada*

- Automated the machine learning workflow in **Python** to dynamically reserve, utilize, and terminate **cloud GPU instances**, saving **\$17,000** yearly.
- Introduced a new **geospatial vector data** format for **AWS DocumentDB**, holding over **50%** more data points, while reducing loading time by **80%**.
- Optimized time-complexity of existing and new Javascript algorithms, allowing for users to visualize and customize **500,000+** data points dynamically.
- Designed and created REST API endpoints in **Java Spring Boot**, following **object-oriented** programming and various **software design patterns**.

## Projects

### Meal Drop

Jan 2022

- Engineered a **full-stack** application utilizing the **MERN** stack, mitigating food wastage by allowing restaurants to schedule pickups.
- Leveraged **JWTs** to create a **client-side authentication** solution, securing the application and providing **persistent sessions** for users.
- Implemented a **RESTful API** in **Express.JS** to handle request, allowing users to perform CRUD operations with pickup postings.
- Deployed application on **Netlify** and **Heroku** to follow the **server-less** architecture model.

### Algorithmic Crypto-Bot

Aug 2021

- Developed a bot using **Python** and **CCXT** to identify cryptocurrencies for bullish / bearish candlestick patterns, backtested to **22% APY**.
- Leveraged **Twilio** to generate text message alerts, notifying users of any coin satisfying the required conditions.
- Deployed algorithm on a **EC2** instance, automating the hourly analysis with **Cron**.

### Memories - Web App

Oct 2021

- Designed a **web application** allowing users to create, view, comment, and delete posts with images.
- Developed 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.

## Technical Skills

**Languages:** Java, C, C++, Python, JavaScript, HTML, CSS

**Technologies:** Spring, Express.js, Postgres SQL, MongoDB, Node.js, React.js, Redux, Vue.js

**Infrastructure:** AWS EC2, SES / SNS, S3, RDS, EFS, Google Cloud, Firebase, Git

**Learning:** Blockchain, Solidity, ASP.NET