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 **$16,800** 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 **client-side requests**, 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, resulting in an average **22% APY.**
- Leveraged **Twilio** to **generate text message alerts**, notifying users of any coin satisfying the required conditions.
- Deployed an **EC2** instance to run on **AWS**, **automating** the hourly analysis with Cron.

Memories - Web App   **Oct 2021**

- Designed a **full-stack 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 pattern**s 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