

# Jimmy Yan

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## EDUCATION

### McMaster University

Bachelor of Engineering, Mechatronics Engineering  
McMaster Honor Award, GPA: 3.9/4.0

Hamilton, ON  
Sep.2020 - Apr.2025

## SKILLS

Languages:	Java, Python, SQL, Javascript, C, C++, HTML, CSS, Shell Script, Arduino, q
Environments:	Linux, IntelliJ, Pycharm, Visual Studio Code, SuperPuTTY, Processing, Anaconda
Databases:	MySQL, MongoDB, KDB+, Microsoft SQL server
Tools/Frameworks:	React JS, React Native, Spring Boot, Flutter, Node.js, Firebase, Matlab, Git, Jira

## EXPERIENCES

### Royal Bank of Canada Capital Markets

Software Developer Intern

Toronto, ON  
May.2022 - Present

- Completed development of new features assigned on **Jira** for a full stack web-based application with using **React JS** and **Python** to support over 10 daily users to simulate over 100 testing orders daily
- Carried the main responsibility of the data-feeder project using **Java** to handle data storage of algorithm and AI trading orders and log data from over 15 production servers in **KDB+**
- Followed **Agile methodology** to take in various new business requirements to enable traders and UI team to access orders and log data in our **KDB+** database through **RESTful API** designed with using **Spring Boot**
- Developed a **WebSocket** application in **Spring Boot** for UI team to enable traders to access over 10, 000 daily real time trading orders from over 15 production servers
- Worked with QA and support teams to create and release new versions and builds from **Jenkins** and perform deployment of the new releases to different testing and production **Unix** server environments
- Responsible for creating and submitting of over 40 change requests to the management team for new releases and changes

### Admass

Mobile Developer

Remote  
Aug.2021 - Feb.2022

- Worked in a team of 8 to develop a **React Native** social media influencer app within 4 weeks
- Completed given tasks on **Jira** such as integrating over 3 **Figma** mobile page UI designs and app components into **React Native** mobile application
- Integrate 2 given APIs with the **React Native** app as well as perform testing to the APIs in **Postman** for user accounts and data

### iTalkRobot

Software Developer

Remote  
Jul.2020 - Apr.2021

- Recreated and redesigned the old company website with **React JS** that was initially made with WordPress for future functionality and backend integrations
- Developing the new delta dispenser app with **Flutter** and **Firebase** as well as designing the new hardware design in **Inventor**

### The Foundation for Student Science and Technology

Researcher

Remote  
Jul.2019 - Aug.2019

- Communicate with the mentor over **Slack** to develop a frog species detection app in **Android Studio**
- Research on different machine learning models and image classification libraries

## PROJECTS/AWARDS

### Recyclops, TOHacks 2021 (Devpost Link)

May.2021

- Responsible for the development of the recycle reward app with using **Flutter** and **Firebase**
- Developed the backend module for **Flutter** to create connection and access all user data from real time cloud database from **Firebase**
- Implemented **Courier** email and SMS notification API into **Flutter** to alert users when item is mis-recycled and redeem rewards
- Winner of the best use of Courier runner-up award out of 195 projects

### Delta Dispenser, DeltaHacks 7 (Devpost Link)

Mar.2021

- Worked in a team of 4 to design an automatic pill dispenser hardware model by using **Inventor**
- Used **Flutter** and **Firebase** to create a mobile app to keep track of the number of pills
- Winner of the DSC McMaster challenge out of 74 projects