MIIYU FUJITA

[Portfolio Website](#) | [GitHub](#) | [LinkedIn](#) | miiyu.fujita@mail.mcgill.ca

EDUCATION

McGill University · B.Eng., Electrical Engineering · CGPA: 3.92/4.00   Sep. 2020 - Apr. 2024 (Expected)

SKILLS

- **Languages:** Python, Java, HTML, CSS, Javascript, FXML
- **Tech:** ReactJS, Bootstrap, jQuery, MongoDB, Mongoose, NodeJS, ExpressJS, ThreeJS, Git, Hyper, GridLAB-D

EXPERIENCE

McGill University | NSERC Undergradute Student Research Award   May 2022 - Aug. 2022

Summer Research Intern | [GitHub](#)

- Researched electricity distribution network hosting capacity methods to quantify impact of renewable DERs on the grid
- Increased productivity of data analysis by a **factor of 30** by writing a **Python** script to automate parsing of JSON data and compute voltage range violation occurrences, using **pandas**
- Wrote **Python** script to perform Fortescue's transformation on voltage matrices to quantify unbalances using **NumPy**

McGill Rocket Team   Sep. 2020 - Oct. 2021

Ground Station Software & Hardware Project Lead / Avionics Member | [GitHub](#) | [Demo Video](#)

- Collaborated with 3 teammates to design and implement a full-stack live rocket telemetry GUI application crucial to rocket recovery process evaluated at Spaceport America Cup Intercollegiate Rocket Competition using **Java & FXML**
- Authored and presented introductory lecture on ground station projects to **20+** new recruits during 2021-22 bootcamp

Business Development Bank of Canada   Jun. 2021 - Aug. 2021

Cyber/IT Risk Analyst Intern

- Performed technology risk assessment of 5 third party services and facilitated 26 cyber risk training conferences

PROJECTS

Full Stack [MERN] Notes App   Sep. 2022 - Present

Personal Project | [GitHub](#) | [Website](#)

- Created API endpoints for **Create, Read,** and **Delete** functionalities using **Express** to interact with note database
- Saved created notes onto front-end interface and into the database as collections using **MongoDB (mongoose), ExpressJS, ReactJS (Hooks: State/Effect, fetch & async functions), NodeJS, HTML** and **CSS**

Create-Your-Golf Landing Page   Sep. 2022 - Present

Personal Project | [GitHub](#) | [Website](#)

- Designed and currently implementing a 3D golf ball customization service's landing page using **ThreeJS, ReactJS, CSS**

Personal Portfolio Website   Aug. 2022

Personal Project | [GitHub](#) | [Website](#)

- Designed and implemented a fully responsive portfolio website using **HTML, CSS (media queries), Bootstrap**

LEADERSHIP & INVOLVEMENT

- **Co-Founder & Co-Facilitator - *McGill Book Club***: Extra-curricular book club, amassed **200+** member registrations
- **MAIS202 - *McGill Artificial Intelligence Society***: Machine Learning Bootcamp attendee. Trained yolov3 computer vision model using Google's Open Images Dataset to recognize humans in a given image, with an mAP of **27.85%**
- **Deputy PM - *Automated Storage/Retrieval System***: Led 6 students. Final system sorting and delivery requirements outperformed by **400%** & **167%** respectively. **100%** success rate of functions achieved through iterative testing.