Miiyu Fujita

Portfolio Website | GitHub | LinkedIn | miiyu.fujita@mail.mcgill.ca

education

McGill University   Sep. 2020 - May 2024
B.Eng., Electrical Engineering · **CGPA: 3.92/4.00**

skills

Technologies: Java, Python, HTML, CSS, ReactJS, Bootstrap, jQuery, MongoDB, Mongoose, NodeJS, ExpressJS, Javascript, Git, FXML, Hyper, MATLAB, Raspberry Pi, VHDL, ModelSim-Altera, VS Code, Atom, Eclipse, IntelliJ, MS Office
Languages: Fluent in English, Japanese and French

experience

McGill University | NSERC Undergraduate Student Research Award   May 2022 - Aug. 2022
Summer Research Intern | GitHub
- Developed a step-by-step method to evaluate the effect of distributed energy resources (ex: solar panels) on electricity distribution networks in a simulated environment, under the supervision of Prof. François Bouffard
- Wrote **Python** scripts to automate parsing of JSON data and compute voltage range violation occurrences: output in csv
- Wrote **Python** scripts to perform Fortescue's transformation on voltage matrices to quantify unbalances between phases
- **Python (pandas and NumPy libraries), GridLAB-D (open source, command-line interface simulation software)**

McGill Rocket Team   Sep. 2020 - Oct. 2021
Ground Station Software & Hardware Project Lead / Avionics Member | GitHub | Demo Video
- Authored introductory lecture on ground station projects to new recruits during 2021-22 design cycle bootcamp
- Implemented front-end GUI to present live rocket telemetry through animated graphical displays using **Java & FXML**

Business Development Bank of Canada   Jun. 2021 - Aug. 2021
Cyber/IT Risk Analyst Intern
- Performed technology risk assessment of 5 third party services based on provided reports
- Facilitated 26 cyber risk training and awareness conferences by updating spreadsheets and providing IT support

projects

MERN Stack Notes App   Sep. 2022 - Present
Personal Project | GitHub | Website
- Implemented a full-stack note-taking app with **Create, Read,** and **Delete** note functionalities using the MERN stack
- **MongoDB (mongoose), ExpressJS, ReactJS (Hooks: State/Effect, fetch & async functions), NodeJS, HTML, CSS**

Personal Portfolio Website   Aug. 2022
Personal Project | GitHub | Website
- Designed and implemented a fully responsive portfolio website using **HTML, CSS (media queries), Bootstrap**

Cryptocurrency Tracker API   Aug. 2022
Personal Project | GitHub | Website
- Implemented a fully responsive app to display cryptocurrency data fetched from CoinGecko API using **ReactJS (Hooks)**

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 custom yolov3 model using Google's Open Images Dataset to recognize humans in a given image
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