🛘 (514) 513-5260 | 🗷 brendanmarkseng@gmail.com | 🌴 www.brendanmarks.github.io | 🖸 brendanmarks | 🛅 brendan-marks

Skills

Programming Languages Python, Java, C++, JavaScript, SQL, HTML, CSS, TypeScript, C **Tools and Frameworks** Pandas, Scikit-Learn, Flask, Spring, FastAPI, React, Angular, Git

Work Experience_

Royal Bank of Canada, GAM

Toronto, Canada

QUANTITATIVE DEVELOPER CO-OP

Jan. 2021 - Aug. 2021

- · Responsible for end-to-end development of a financial report distribution system utilizing Python Notebooks, a FastAPI backend and Angular frontend that was deployed for 3+ investment management teams within the organization and presented to upper management
- · Improved microservice performance by 80% through implementation of ETL pipeline and Redis cache
- · Worked directly with investment teams to gather requirements, analyze feedback, and provide solutions to improve existing products and workflows

Matrox Dorval, Canada

SOFTWARE DEVELOPMENT INTERN

May. 2020 - Aug. 2020

- Developed algorithms using object-oriented C++ to test functionality of an image processing library, increasing product reliability by adding 10+
- · Wrote documentation for 4 shape-detection algorithms of 2D images, leading to the creation of a visual debugging tool to aid developers more easily understand algorithms
- Communicated bi-weekly with team to assist with ad-hoc tasks and debugging

Ormuco Montreal, Canada

SOFTWARE DEVELOPMENT INTERN

Jan. 2019 - Feb. 2020

- · Performed fullstack development of a web application using AngularJS, MySQL, Python, and HTML & CSS in a Linux environment by resolving weekly bugs and adding 5 features to improve user experience and product functionality
- · Worked closely with the CEO to implement a virtual machine backup and restoration feature for the company, greatly improving safety of cus-
- · Collaborated with a team of 10 in an Agile environment, communicating key project updates during daily stand-up meetings

Extracurricular Activity _____

COVID QC (covidgc.com)

Montreal, Canada

McGill University

- Mar. 2020 April. 2020
- · Developed an interactive COVID-19 dashboard using ReactJS to show most recent data and statistical insights for Montreal neighbourhoods and the province of Quebec
- Collaborated with 15+ members including interfaculty undergraduates, graduate students, and university professors to add new user functionality such as Tableau and BI components

DPM Montreal, Canada

• Designed and programmed a semi-autonomous robot in Java using the LeJOS EV3 API

- · Added algorithms and logic using sensors to follow walls, localize and navigate a grid area
- Implemented multi-threading to maximize efficiency on a low-power processor

Banque Nationale PowerBI Hackathon (3rd Place)

Montreal, Canada

Sept. 2019 - Dec. 2019

McGill University

Oct. 2019

· Worked on resolving a real company's data analysis problem using Microsoft's Power BI data visualization tool.

Education

McGill University Montreal, Canada

SOFTWARE ENGINEERING (BENG)

Sept. 2018 - May. 2022

- · 3.90 / 4.00 CGPA
- Edgar R. Parkins Entrance Scholarship Recipient for achieving outstanding academics
- Courses in Machine Learning, Software Engineering Principles, Data Structures, Probabilities & Statistics and Computer Hardware