GARRETT WOODSON

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EDUCATION

McGill University   **Montreal, Canada**
BEng. in Software Engineering Co-op, 4.0 GPA   **2022-2027**
- J.W. McConnell Scholarship Recipient (2023): Awarded by the McGill University Committee on Scholarships and Student Aid based on high academic standing, qualities of leadership in community and school activities, and faculty recommendations.
- Relevant courses: Fundamentals of Software Development, Foundations of Programming, Linear Algebra and Geometry, Intermediate Calculus, Introduction to the Engineering Profession, Communication in Engineering

SKILLS

- Python (Flask, Django, Pandas, Bokeh, NumPy), Java, HTML, CSS, JavaScript, Jinja, SQLite, Git
- Native English, Intermediate French

PERSONAL PROJECTS

Laptop Power Bank   **August 2023**
- Designed and created a fully functional laptop power bank with integrated USB-C power delivery protocol to charge laptops and other Type-C devices at up to 100 Watts.
- Incorporated 99-Watt hours of capacity, capable of fully charging a MacBook Air twice.
- Utilized: Circuitry, Spot Welding, Soldering, 3D Printing, Dimensional Analysis

Interactive Movie Voter   **May 2023**
- Created an interactive web application designed to help users decide what movies to watch with friends.
- Integrated IMDb datasets to provide users with over 400,000 movie titles to choose from.
- Made use of SQLite to store user input such as friend groups and liked movies across multiple sessions.
- Utilized: Python, Flask, SQLite, HTML, CSS, Jinja, JavaScript

Stock Trading Simulator   **April 2023**
- Created a dynamic web application that allowed users to simulate buying/selling stocks with real time prices.
- Ensured stock prices updated in real time by using API from IEX stock exchange.
- Utilized: APIs, Python, Flask, SQLite, HTML, CSS, Jinja, JavaScript

ENGINEERING EXPERIENCE

McGill Robotics – Software Team Member   **September 2023-Present**
- Contributed to software development of an autonomous rover designed to explore the surface of Mars.

Techbytes Foundation Online Learning – Python and Data Science   **September 2023**
- Developed proficiency with 3+ Python libraries by creating unique, interactive data visualizations.

HarvardX Online - CS50: Introduction to Computer Science   **May 2023**
- Completed 15+ unique projects to exemplify proficiency in 5+ programming and markup languages.

4th Place Junior Design Quebec Engineering Competition (QEC)   **January 2023**
- After winning regional McGill Engineering Competition, competed, and won 4th place in Junior Design Competition at QEC 2023. Responsible for designing, constructing, and testing a prototype created to solve a real-world problem as well as creating presentation.

LEADERSHIP EXPERIENCE

The Cube   **Montreal, Canada**
Operations Manager   **March 2023-Present**
- Managed internal activities of McGill University's student run 3D printing service.
- Oversaw a team of five technicians to facilitate the reception, production, and delivery of additive manufacturing orders for students, researchers, and the general public.
- Responsible for completing employee payroll as well as material and inventory ordering.
- Performed regular maintenance and troubleshooting on filament and resin printers.