

# GARRETT WOODSON

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## EDUCATION

### McGill University

#### BEng. in Software Engineering, 4.0 GPA

**Montreal, Canada**

**2022-2027 (Expected)**

- Relevant courses: Fundamentals of Software Development, Foundations of Programming, Linear Algebra and Geometry, Intermediate Calculus, Introduction to the Engineering Profession, Communication in Engineering

## EXPERIENCE

### *The Cube*

#### Operations Manager:

**Montreal, Canada**

**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 Ultimaker, Sindoh and Resin printers.

## PERSONAL PROJECTS

### 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

### 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

### 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

## AWARDS AND ACCOMPLISHMENTS

### J W McConnell Scholarship Recipient:

**September 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.

### 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.

### 4<sup>th</sup> Place Junior Design Quebec Engineering Competition (QEC):

**January 2023**

- After winning regional McGill Engineering Competition, competed and won 4<sup>th</sup> place in Junior Design Competition at QEC 2023. Responsible for design and physical analysis of prototype as well as creating presentation.

## SKILLS

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