

# GARRETT WOODSON

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## EDUCATION

### McGill University

Montreal, Canada

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

Expected Graduation Year: 2027

- Relevant courses: Foundations of Programming (COMP 202), Linear Algebra and Geometry (MATH 133), Calculus 2 (MATH 141), Electromagnetism and Optics (PHYS 142), Introduction to the Engineering Profession (FACC 100)

## EMPLOYMENT HISTORY

### *The Cube*

Montreal, Canada

#### Operations Manager:

2023-Present

- Managed internal activities of McGill Universities student run 3D printing service.
- Oversaw 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.

### *TechBytes Foundation*

Surrey, Canada

#### Data Science Intern:

2023

- Analyzed 1000+ historical stock prices and created meaningful visualizations with Python and Pandas

## PERSONAL PROJECTS

### Interactive Movie Voter:

- 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 watch-groups and liked movies across multiple sessions.
- Utilized: Python, Flask, SQLite, HTML, CSS, Jinja, JavaScript

### Laptop Power Bank:

- 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 Wh of capacity (46% greater than retail brand). Capable of fully charging a MacBook Air twice.
- Utilized: Circuitry, Spot Welding, Soldering, 3D Printing, Dimensional Analysis

### Stock Trading Simulator:

- 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

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

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.

### J W McConnell Scholarship Recipient:

2022

- Awarded by the University Committee on Scholarships and Student Aid based on high academic standing, qualities of leadership in community and school activities, and faculty recommendations.

### HarvardX Online - CS50: Introduction to Computer Science:

2023

- Completed 15+ unique projects to exemplify proficiency in 5+ programming and markup languages.

## SKILLS

- Python (Django, Pandas, NumPy, Flask), HTML, CSS, Jinja, SQLite, JavaScript, Git
- Native English, Limited Working French