

# Matthew C. McCoy

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## EDUCATION

**Northeastern University, Khoury College of Computer Sciences**, Boston, MA Jan. 2021 - Present  
Candidate for Bachelor of Science in Computer Science Expected May 2024

**Honors:** GPA: 3.60/4.00 | Dean's List

**Coursework:** Fundamentals of Computer Science I and II, Mathematics of Data Models, Object-Oriented Design, Foundations of Cybersecurity, Algorithms & Data Structures, Computer Systems

**Wentworth Institute of Technology**, Boston, MA Sept. 2019 – Dec. 2020  
Candidate for Bachelor of Science in Computer Science

**Honors:** GPA: 3.80/4.00 | Dean's List

**Coursework:** Computer Science I and II, Data Structures, Network Programming

**Activities:** Phi Sigma Pi Honors Fraternity

## COMPUTER KNOWLEDGE

**Languages:** Java | C# | Python | Racket | C | JavaScript

**Software:** IntelliJ | Visual Studio Code | Visual Studio | Eclipse | PyCharm | Spyder | GitHub | Git

**Systems:** Mac OS | Windows | Linux

## WORK EXPERIENCE

*Software Engineering Co-op – Solution Team, HighRes Biosolutions*, Beverly, MA July – Dec. 2022

- Created a Software Development Kit that will facilitate usage of the API, which was then used in integration testing to make the tests simpler and easier to read
- Implemented a customizable simulated inventory scan using labware lookup codes in which can be used to help debug customer issues.

*TA and Lab Lead for Fundamentals of Computer Science II, Khoury College*, Boston, MA Jan. – May 2022

- Led a lab section of over 30 students and 2 other Teaching Assistants to introduce labs and handle the logistics of the lab section
- Held weekly office hours to introduce students to Java and help them develop good coding habits
- Collaborated with over 60 other Teaching Assistants for grading assignments, labs, and exams

*TA for Fundamentals of Computer Science I, Khoury College of Computer Sciences*, Boston, MA Sept. – Dec. 2021

- Held weekly office hours introducing students to Racket and essential programming principles
- Collaborated with over 70 other TAs in the grading of assignments, labs, and exams

*IT Intern, Chemic Laboratories Inc.*, Canton, MA Dec. 2019 – Jan. 2020

- Installed the suite of company-issued security and productivity applications
- Assisted in the deployment of numerous new enterprise workstations following the cGxP policies and procedures
- Learned how a small company stores data, manages infrastructure, and protects its computer systems and networks

## PROJECTS

**Image Processor | Java** Oct. 2021 – Dec. 2021

- Created an image processor in Java utilizing Swing for a GUI and use of command line arguments; the image processor allows the user to load, mutate, and save the image to the user's computer
- Applied the MVC architecture to separate all the functions and organize the structure of the application

**Marble Solitaire | Java** Sept. 2021 – Oct. 2021

- Created a Java version of a Marble Solitaire game that allows a user to play in 3 different styles of board types (English, European, and Triangular); the game utilizes MVC architecture to organize the structure of the application and separate each of its functions

**Agar.IO | Java** March 2020

- Utilizes Object-Oriented programming and JavaFX for GUI to develop a Java version of the Agar.IO online game that allows the user to play against AI with a random amount of aggressiveness

## INTERESTS

Aerial Photography and Videography, Hiking, Kayaking, Board Games, Rock Music