

# Matthew C. McCoy

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Availability: Full Time - May 2024

## 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: 3.51/4.00 | Dean's List

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

## COMPUTER KNOWLEDGE

**Languages:** Java | C# | TypeScript | JavaScript

**Software:** IntelliJ | Visual Studio Code | Visual Studio | Eclipse | GitHub | Git | Jira | Bitbucket | GitLab

## WORK EXPERIENCE

Software Engineer, **Generate Product Development – Northeastern University**, Boston MA Sept. 2023 – Present

- Develop front-end components and pages utilizing JavaScript and CSS following figma mocks built by team designers
- Ensure responsive design throughout the club's website through fixes to legacy pages and while developing new pages
- Collaborate with the website team to rectify issues and foster a unified approach to coding standards across newly developed components and revamped legacy pages

Test Automation Engineer Co-op, **Symbotic**, Wilmington, MA

July 2023 – Present

- Develop Unit Tests in C# deployed on a Jenkins pipeline, to verify the correctness of numerous Add-On Instructions on Programmable Logic Controllers ensuring peace of mind when installing on customer sites
- Work alongside PLC Developers to debug and perform root cause analysis on test failures
- Implemented a structure file compare tool in C# doubling the efficiency of developers assigned to originally compare the structure files by eye

Software Engineer Co-op, **HighRes Biosolutions**, Beverly, MA

July – Dec. 2022

- Programmed in C# to create a software development kit that facilitates the usages of the API, ensuring a faster integration of the software into customer systems
- Implemented an internal customizable simulated inventory scan using C# that reads labware lookup codes from a JSON file making debugging customer issues with their inventory easier
- Collaborated with colleagues in the Marketing, Quality Assurance, and Software Engineering teams to implement and design the new user-interface for Settings and displaying the version numbers of the hardware using React and Typescript
- Utilized Jira and Bitbucket to manage sprint tasks, participate in code reviews, and document bugs identified in the software

TA and Lab Lead for Fundamentals of Computer Science, **Khoury College**, Boston, MA

Sept. 2021 – May 2022

- Managed a lab section of over 30 students and collaborated with two other Teaching Assistants to teach programming concepts and manage lab logistics for Fundamentals of Computer Science
- Conducted weekly office hours to introduce students to programming and foster good coding practices
- Collaborated with a team of over 60 Teaching Assistants to grade assignments, labs, and exams and ensure consistent evaluation standards

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 by following the cGxP policies and procedures

## PROJECTS

**Covey Town – Checker Game** | TypeScript & React

- Designed and implemented a new feature in Covey Town, an open-source software, enabling two users to play checkers using Typescript and React for the front and back-end
- Ensured adherence to RESTful principles when building the API for seamless communication between front and back-end models
- Established a robust CI/CD environment for the project by deploying the front-end on Netlify and back-end on Heroku, enabling continuous monitoring and streamlining the development process

## INTERESTS

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