

# Matthew C. McCoy

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Availability: Full Time - May 2024

## EDUCATION

<b>Northeastern University, Khoury College of Computer Sciences</b> , Boston, MA	Jan. 2021 - Present
Candidate for Bachelor of Science in Computer Science	Expected May 2024
<b>Honors:</b> GPA: 3.51/4.00   Dean's List	
<b>Coursework:</b> 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

<b>Languages:</b>	Java   C#   TypeScript   JavaScript
<b>Libraries &amp; Frameworks:</b>	React.JS   Next.JS   Tailwind   Material UI
<b>Software:</b>	IntelliJ   Visual Studio Code   Visual Studio   Eclipse   GitHub   Git   Jira   Bitbucket   GitLab
<b>Systems:</b>	Mac OS   Windows

## WORK EXPERIENCE

Software Engineer, <b>Generate Product Development – Northeastern University</b> , Boston MA	Sept. 2023 – Present
<i>Test Automation Engineer Co-op, Symbotic LLC</i> , Wilmington, MA	July 2023 – Present
<ul style="list-style-type: none"><li>• Develop Unit Tests in C# to verify the correctness of numerous Add-On Instructions on Programmable Logic Controllers ensuring peace of mind when installing on customer sites</li><li>• Work alongside PLC Developers to debug and perform root cause analysis on test failures</li><li>• Implemented a structure file compare tool in C# doubling the efficiency of developers assigned to originally compare the structure files by eye</li></ul>	
<i>Software Engineer Co-op, HighRes Biosolutions, Inc.</i> , Beverly, MA	July – Dec. 2022
<ul style="list-style-type: none"><li>• 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</li><li>• 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</li><li>• 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</li><li>• Utilized Jira and Bitbucket to manage sprint tasks, participate in code reviews, and document bugs identified in the software</li></ul>	
<i>TA and Lab Lead for Fundamentals of Computer Science, Khoury College</i> , Boston, MA	Sept. 2021 – May 2022
<ul style="list-style-type: none"><li>• 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</li><li>• Conducted weekly office hours to introduce students to programming and foster good coding practices</li><li>• Collaborated with a team of over 60 Teaching Assistants to grade assignments, labs, and exams and ensure consistent evaluation standards</li></ul>	
<i>IT Intern, Chemic Laboratories Inc.</i> , Canton, MA	Dec. 2019 – Jan. 2020
<ul style="list-style-type: none"><li>• Installed the suite of company-issued security and productivity applications</li><li>• Assisted in the deployment of numerous new enterprise workstations by following the cGxP policies and procedures</li></ul>	

## PROJECTS

<b>Covey Town – Checker Game</b>   TypeScript & React
<ul style="list-style-type: none"><li>• 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</li><li>• Ensured adherence to RESTful principles when building the API for seamless communication between front and back-end models</li><li>• 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</li></ul>

## INTERESTS

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