Matthew C. McCoy

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Availability: June – December 2023

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, Foundations of Cybersecurity, Algorithms & Data Structures, Computer Systems, Fundamentals of Software Engineering

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 & Libraries: Java | C# | TypeScript | React | Racket | C | JavaScript
Software: IntelliJ | Visual Studio Code | Visual Studio | Eclipse | GitHub | Git | Jira | Bitbucket
Systems: Mac OS | Windows

WORK EXPERIENCE

Software Engineering Co-op – Solution Team, **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 Solution 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 I & II, **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 II
- Conducted weekly office hours to introduce students to programming in Java 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.

Image Processor | *Java*
- 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

INTERESTS

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