Duncan Mayer

Available: May – December 2024 | <u>GitHub</u> | <u>LinkedIn</u> Boston, MA | (978) 818-3526 | <u>mayer.du@northeastern.edu</u>

Education:

Northeastern University

September 2021 - Present

Khoury College of Computer Sciences

Boston, MA

Candidate for Bachelor of Science in Computer Science, Software Concentration | Expected: April 2025

GPA/Honors: 3.96/4.00, Dean's List, Dean's Scholarship

Relevant Courses: Database Management Systems (Graduate Level) | Object Oriented Design

Algorithms | Network Fundamentals | Fundamentals of Software Engineering

Technical Knowledge:

Languages: Java, Python, C, SQL, JavaScript, TypeScript, C#, Visual Basic

Systems: macOS, Ubuntu Linux, Windows

Technologies Git, Excel, Amazon Web Services, React, Vue, Node.js

Work Experience:

Software Engineering Coop *Wolters Kluwer - UpToDate*

July 2024 - Present

Waltham, MA

• Wrote and maintained efficient Java code across legacy and modern systems, including at REST endpoints and in the processing of sitewide content meta-information

• Led a localization project for Chinese users, streamlining multilingual access and support through the design of reusable, flexible Vue.js components

Quality Assurance Coop

July 2023 – December 2023

Khoury College of Computer Science

Boston, MA

- Developed and maintained comprehensive test automation scripts in Python and C# to ensure the quality and reliability of internal applications
- Employed Azure DevOps Services to plan, track, and manage project tasks, ensuring transparency and facilitating collaboration among team members
- Led initiative to automate QA Team metrics collection using Visual Basic, streamlining data collection processes and compiling comprehensive metrics analysis for delivery to executives

Teaching Assistant for Fundamentals of Computer Science 2

September 2022 - June 2024

Khoury College of Computer Science

Boston, MA

- Held office hours, graded exams and assignments, mentored and reviewed performance of between 6 and 10 other Teaching Assistants per week
- As head TA of lab section, personally led and taught review lessons that centered core class concepts such as object-oriented design, code abstraction, and algorithms to over 30 struggling students.

Projects:

Online Set Game – TypeScript, React, Node.js, Firebase, Jira, Heroku

May 2024

- Built a Heroku-hosted web-app using React and Typescript to play the pattern-matching game Set
- Leveraged a Firebase storage system for persistent scoring of both online multiplayer matches and games against a custom, difficulty-scaled AI opponent

Dynamic Content Delivery Network – *Python, Ubuntu Linux*

April 2024

- Designed and developed a custom Content Delivery Network (CDN) from the ground up, including constructing bespoke DNS and HTTP servers
- Implemented Least Frequently Used caching and geo-IP location-based routing, optimizing content delivery by dynamically distributing requests to the most efficient HTTP servers

Interests/Other Experiences:

• Northeastern Oasis Coding Club, Folk music, Avid Fantasy and Sci-fi Literature Reader