

# Duncan Mayer

Available: May – December 2024 | [GitHub](#) | [LinkedIn](#)  
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## Education:

<b>Northeastern University</b>	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:

<b>Languages:</b>	Java, Python, C, SQL, JavaScript, TypeScript, C#, Visual Basic
<b>Systems:</b>	macOS, Ubuntu Linux, Windows
<b>Technologies</b>	Git, Excel, Amazon Web Services, React, Vue, Node.js

## Work Experience:

<b>Software Engineering Coop</b>	July 2024 – Present
<i>Wolters Kluwer - UpToDate</i>	<i>Waltham, MA</i>

- 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

<b>Quality Assurance Coop</b>	July 2023 – December 2023
<i>Bain Capital</i>	<i>Boston, MA</i>

- 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

<b>Teaching Assistant for Fundamentals of Computer Science 2</b>	September 2022 – June 2024
<i>Khoury College of Computer Science</i>	<i>Boston, MA</i>

- 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:

<b>Online Set Game – TypeScript, React, Node.js, Firebase, Jira, Heroku</b>	May 2024
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- 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

<b>Dynamic Content Delivery Network – Python, Ubuntu Linux</b>	April 2024
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- 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