

Marguerite Collette

Boston, MA • (203)-232-1197 • collette.m@northeastern.edu

Website: <https://maggiecollette.github.io/Personal-Site/> • LinkedIn: <https://www.linkedin.com/in/marguerite-collette>

Education

NORTHEASTERN UNIVERSITY

Boston, MA

Khoury College of Computer Sciences

September 2021 – Present

Candidate for a Bachelor of Science degree in Computer Science

Expected Graduation: May 2025

Relevant Coursework: Object Oriented Design, Algorithms, Web Development, Computer Systems, Networks and Distributed Systems, Database Design, Theory of Computation, Foundations of Cybersecurity, and more

Skills

Front-End: JavaScript, TypeScript, Angular, React, JSON, HTML, Bootstrap, Node.js, CSS, Express.js, Plotly.js

Back-End: C#, Java, SQL, Python, C, Supabase, Assembly, AWS, Beautiful Soup, Crontab

Other: Object Oriented Programming, Web Development, Algorithms, Linux, Fiddler, NumPy, System Verilog, GitHub

Work Experience

EMONEY ADVISOR

Radnor, PA (Remote)

Software Engineer, Co-Op

July 2023 – December 2023

- Developed and tested C# code to extract comprehensive financial data from bank accounts including balances, transactions, and investments for clients across various financial institutions.
- Analyzed web trace attributes (HTML, JavaScript, JSON, and headers) using Fiddler to determine bug root causes.
- Resolved tickets related to multifactor authentication, missing headers and cookies for page navigation, and general financial institution webpage modifications that require new parser logic.
- Produced SQL scripts to manipulate the database's existing transactions when necessary, referencing Jenkins builds and Octopus deployments to ensure accurate outcomes.

KHOURY COLLEGE OF COMPUTER SCIENCES

Boston, MA

Student Curriculum Innovation Developer

December 2023 – Present

- Creating modules related to various Computer Science disciplines under Dr. Mark Fontenot to provide Northeastern University Students with an expansive hub for self-directed learning.
- Completing one module biweekly, consisting of 60 to 90 minutes of digestible yet in depth content.

NORTHEASTERN UNIVERSITY OASIS

Boston, MA

Executive Board Member – Resources Director

December 2023 - Present

- Organizing club resources into paths which will direct students from ideation to completion of personal projects using their chosen frameworks as a part of a goal set by Khoury College to provide students with out of classroom resources.
- Directing club members to resources related to weekly hack sessions.

Mentor

September 2023 - Present

- Providing guidance and feedback during weekly club meetings to two groups of club members on their web development projects, teaching them the basics of React JS and databases such as Supabase and Firebase.

NORTHEASTERN UNIVERSITY

Boston, MA

Teaching Assistant - Fundamentals of Computer Science I & II

May 2022 – May 2023

- Reinforced students' knowledge of writing and debugging programs in Java and Racket during 4+ office hours weekly.
 - Directed students through assigned lab problems using worked-out examples during weekly lab sessions.
 - Graded an average of 20 assignments and exams each week, based on style, functionality, and efficiency.
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Projects

PERSONAL WEBSITE - visit: <https://maggiecollette.github.io/Personal-Site/>

December 2022 - Present

- Self-taught the basics of AngularJS, such as Components, Routing, and Structural Directives.

HOW I STYLED (In Progress)

October 2023 - Present

- Acquiring a further understanding of React and Supabase by creating a social media website that will allow users to post how they styled specific items of clothing and search for items to see how others wore them.

ANGULAR WIDGETS - visit: <https://maggiecollette.github.io/Angular-Widgets/>

December 2022

- Gained experience in API calls using an Angular Service, used Angular Interpolation and Pipes for ease of formatting.

HOW BUSY IS MARINO

September 2022 – December 2022

- Conceptualized a web project and gained experience in web scraping utilizing Python, Beautiful Soup, AWS, and Crontab, and self-taught basics of JavaScript, HTML, CSS, and Bootstrap as a member of Northeastern Oasis.