

# Marguerite Collette

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## 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, Fundamentals of Software Engineering, Web Development, Computer Systems, Networks and Distributed Systems, Database Design, and more

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## Skills

Front-End: JavaScript, TypeScript, React, Angular, HTML, Bootstrap, CSS

Back-End: Java, C#, MySQL, Python, AWS, MongoDB, Docker, Spring Boot, Node.js, Express.js

Other: Object Oriented Programming, Web Development, Algorithms, Linux, System Verilog, GitHub, C, Domo, Grafana

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## Work Experience

### **MASTERCONTROL**

Salt Lake City, UT (Hybrid)

#### **Software Engineer, Co-Op**

July 2024 – December 2024

- Engineered an automated integration promotion and scheduling process in Java via an AWS EventBridge Schedule that triggered an AWS Lambda, collecting metrics in Domo and saving five hours of developer time weekly.
- Extended platform REST API to allow for necessary migrations to be run only on the first execution of an integration version, removing the need to redeploy code after a migration is completed.
- Developed integrations using JavaScript and an internal integration toolkit for specific customers and general usage.
- Added modules to the internal integration toolkit allow for use of OPCUA and Excel functionality in integrations.

### **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 required 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.

### **NORTHEASTERN UNIVERSITY OASIS**

Boston, MA

#### **Executive Board Member – Mentor Director**

May 2024 – Present

- Directing recruitment, interviews, and daily oversight of Oasis mentors to ensure a seamless experience for club members developing their first ever web projects.

#### **Mentor**

September 2023 - Present

- Providing individual guidance and feedback during weekly club meetings to twelve club members on their web development projects, teaching them the basics of React and databases.

#### **Executive Board Member – Resources Director**

December 2023 – May 2024

- Expanded club resources as part of Khoury College's goal to provide students with out-of-classroom learning materials.

### **KHOURY COLLEGE OF COMPUTER SCIENCES**

Boston, MA

#### **Student Curriculum Innovation Developer**

December 2023 – May 2023

- Created modules consisting of 60 to 90 minutes of digestible, in-depth content related to various Computer Science disciplines to provide Northeastern students with an expansive hub for self-directed learning under Dr. Mark Fontenot.

### **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.
  - Graded an average of 20 assignments, exams, and labs 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.
- Details personal and class projects at: <https://maggiecollette.github.io/Personal-Site/projects>