Rachel Mary McCoy

Mccoy2rm@dukes.jmu.edu / (240) 772-2591 **/** Mt Airy, MD / www.linkedin.com/in/rachel-mccoy

EDUCATION

James Madison University, Harrisonburg VA   **Expected Graduation May 2025**
Bachelor of Science, Computer Science and minor in entrepreneurship and mathematics
Harrisonburg, VA

SKILLS, PROJECTS & INTERESTS

- **Skills: Java, Python, Html, GitHub, Scrum, Machine Learning, SQL, Docker, C, Ruby, AWS, familiar with Salesforce CRM, GoLang**

- **Completed Coursework:** Introduction into programming (java), Advanced Programming (java), Discrete Structures I, Software Engineering, Algorithms & Data Structures (java), Web Development (Html/JavaScript). Discrete Structures II (java), Computer Systems I & II (C), Programming Languages (Ruby/Haskell), Computer & Numerical systems (Python)

- **Current Coursework:** Applied algorithms (Python), Interaction Design, Compilers(decaf), Hacking for Defense

- **Selected Personal Projects:**   **Rachelmcco.github.io**
  - **ForScore Dive Scoring Application (Java):** Developed an application in Java designed to calculate diving scores for a dive meet. This project also featured a Graphical User Interface (GUI) component, allowing users to input a specified number of dives and calculate the total score for the entire dive meet.
  - **Swarm Simulation (Java):** Implemented a Java program capable of reading a file and simulating swarms of insects on a custom screen.
  - **Complex Number Calculator (Java):** Collaborated on a team project to create a Complex Number Calculator with a Java-based GUI and its corresponding mathematical functions.

WORK EXPERIENCE, EXTRACURRICULAR ACTIVITIES, AND COMMUNITY SERVICE

Technology Intern   **June 2024 - August 2024**
Ben Lewis Plumbing   *Annapolis Junction, MD*
- Facilitating the integration of Salesforce CRM into company operations.
- Leading the redesign of the company website to enhance user experience and functionality.
- Gaining invaluable insights into corporate operations and understanding interdepartmental workflows and dynamics.

Software Engineering Intern   **June 2023 - August 2023**
Praxis Engineering   *Annapolis Junction, MD*
- Engaged in data science and reverse engineering projects, utilizing Python for tasks such as the analysis of large datasets, development of predictive models, and contributions to enhancing decision-making processes.
- Presented my Graphical User Interface (GUI) and research findings at the SIPS Internship Conference, showcasing Python-based work that led to winning the Best Technical Award.

CS Teaching Assistant   **December 2023 - Present**
James Madison University   *Harrisonburg, VA*

- Facilitated discussion sessions, answered student questions, and provided resources to supplement course materials.

- Played an integral role in facilitating a positive and inclusive learning environment, serving as a role model for undergraduate students within the department.

NCAA Division I Athlete   **August 2021 – Present**

- James Madison University Division one Swimmer.   *Harrisonburg, VA*

- Maintained 20+ hours of vigorous training a week, while maintaining schoolwork.

Women in Technology   **September 2022 – Present**
Member of the Club   *Harrisonburg, VA*

- As a member of this club, we empower the future generation of women to excel in the technology field.

Community Service

Adopt a Road Cleanup   Mount Airy Volunteer Fire Company Carnival   Maryland Food Bank