

Rachel Mary McCoy

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

In process of TS Clearance

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

- **Programming Languages:** Java, Python, C, Ruby, Haskell, HTML, JavaScript **Tools:** GitHub, SQL, AWS, Salesforce CRM, Scrum
- **Past Coursework:** Programming (Java), Data Structures & Algorithms (Java), Software Engineering (Java), Web Development (HTML/JavaScript), Computer Systems (C), Programming Languages (Ruby/Haskell), 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.
 - **Shell & DHCP Protocol Simulation (C):** Built a custom command-line shell supporting external programs, built-in commands, environment variables, and process piping. Developed a DHCP client-server simulation, interpreting BOOTP/DHCP messages and handling IP assignment 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

RISE Women's Leadership Academy Participant

October 2025 - Present

James Madison University

Harrisonburg, VA

- Selected as one of 16 female student-athletes to participate in the inaugural cohort. Engaged in leadership development and community-building workshops. Collaborated on a cohort-led women's empowerment project.

Technology Intern

June 2024 - August 2024

Ben Lewis Plumbing

Annapolis Junction, MD

- Facilitated Salesforce CRM integration and led a website redesign to enhance user experience. Gained insights into corporate operations and interdepartmental workflows.

Software Engineering Intern

June 2023 - August 2023

Praxis Engineering

Annapolis Junction, MD

- Worked on data science and reverse engineering projects, utilizing Python to analyze large datasets and develop predictive models. Presented a Python-based GUI, winning the Best Technical Award at the SIPS Internship Conference.

CS Teaching Assistant

December 2023 - Present

James Madison University

Harrisonburg, VA

- Facilitated an inclusive learning environment and served as a role model for undergraduate students.

NCAA Division I Athlete

August 2021 – Present

James Madison University

Harrisonburg, VA

- Balanced 20+ hours of weekly training with academic responsibilities as a Division I Swimmer.

Community Service

Adopt a Road Cleanup

Mount Airy Volunteer Fire Company Carnival

Maryland Food Bank

Planning on pursuing the accelerated Master of Engineering at the Virginia Tech College of Engineering June 2025