Megan Coyne

56 Woodland Avenue, Dayton, OH 45409

✉ coynem6@udayton.edu linkedin.com/in/megan-coyne

☎ (734)395-5414

Education

Combined BS/MS in Computer Science   **8/22 – 5/27**

University of Dayton | Dayton, OH

Honors with Distinction, Dual Major – Mathematics, Computer Science, 3.89 GPA

Undergraduate Research

Thesis applying Extreme Value Theory to predict municipal financial risks driven by industrial instability.

Skills

Python │ Java │ Docker │ HTML │ Golang │ GIT │ Microsoft Excel │ Agile Programming Methodologies │ Postman │ REST APIs │ SQL │ AngularJs │ JUnit5

Work Experience

Returning Enterprise Technology Intern │ Ford Motor Company, *Dearborn, MI*   **5/25 – 8/25**
- 2025 Ford Intern Social Ambassador, representing the intern experience through social media content.

Software Engineer │ University of Dayton Research Institute, *Dayton, OH*   **10/22 – Present**
- Develop software tools using Golang, C++, and Python to build and maintain projects for the Autonomy Capability Team, tasked with operationalizing AI for the Air Force.
- Test and create GitLab CI/CD pipelines for artificial intelligence projects.
- Create and write Dockerfiles and manage software requirements for program containerization.

Enterprise Technology Intern │ Ford Motor Company, *Dearborn, MI*   **5/25 – 8/24**
- Developed a reference application for 1,000+ engineers within the company to understand and utilize coding conventions Ford developers follow.
- Built and maintained the API using Java Spring Boot, while testing the code function in Postman and JUnit5.
- Aided in deploying the application on Google Cloud Run and setting up the security (ADFS) for the project's successful deployment and integration.
- Presented project deliverables and learnings to department leadership.

Research Associate │ Air Force Research Lab, *Wright Patterson AFB, OH*   **5/23 – 8/23**
- Created a graphical user interface for a change blindness study using Python and Scrum methodologies.
- Analyzed experiment data to further AI research and the development of the Air Space Cognitive Engine.

Campus Involvement

Sigma Kappa | *Vice President of Member Integrity*   **1/23 – Present**
- Social and service-based sorority taking part in activities to raise awareness for Alzheimer's disease.
- Promote sisterhood, service, and student involvement throughout campus.

Flyer Consulting | *Consultant*   **1/24 – Present**
- Provide high quality, thorough business solutions to Dayton non-profit *Girls Can Mentoring.*
- Communicate effectively with clients to recommend technical implementations for the mentoring program.

Math Club | *Secretary*   **8/22 – Present**
- Exciting lectures about math research and new discoveries, as well as hosting math board game nights.
- Create posters for upcoming lectures, design the Pi Day t-shirt, and send email notices for future meetings.

NCUWM University of Dayton Representative   **1/24**
- Attendee of the Nebraska Conference for Undergraduate Women in Mathematics representing UD.