

Erin Crowley

Portfolio Website: <https://ecrow53.github.io/> | LinkedIn: [linkedin.com/in/erin-crowley-28200b291](https://www.linkedin.com/in/erin-crowley-28200b291)

EDUCATION

James Madison University

Harrisonburg, VA

B.S in Computer Science, Minor in Mathematics, 3.56 GPA

Expected 12/2024

- Relevant Courses:
 - ❖ Algorithms and Data Structures, Computer Systems, Artificial Intelligence, Software Engineering, Database Systems, Intro to Autonomous Robots
- Study Abroad: Florence, Italy

EXPERIENCE

Virginia Space Grant Consortium, NASA Wallops Flight Facility

Wallops Island, VA

Research Intern

06/2022 - 08/2022

- Conducted a statistical analysis of NASA precipitation data using Python
- Translated the results into impactful visual representations by generating high-quality graphs and plots
- Presented results to the NASA Wallops Global Precipitation Measurement Team as a technical report

Chameleon Technology Partners

Oakton, VA

Web Developer Intern

12/2023 - Present

- Provide technical support by contributing to the design, development, and maintenance of the company's essential marketing website

Computer Science Department, James Madison University

Harrisonburg, VA

Teaching Assistant

08/2023 - 12/2023

- Provided one-on-one support to students by answering course-related questions and assisting with homework assignments in Java, Python, and C

PROJECTS

Review App

- Co-led a team of five using the scrum framework: utilized agile methodology through sprint planning, review, and retrospective to develop a web application designed to showcase targeted film details and ratings
- Individually crafted the API call in Java allowing the app to find and display information to the user

Database System

- SQL database that supports operations for multiple hotels such as managing reservations and guests
- Front-end created using Python (Flask), HTML/CSS/JavaScript supports inserting, updating, and deleting

Pac-Man

- Created a Pac-Man AI agent in Python that can independently navigate the maze and avoid ghosts
- Used DFS, BFS, and A* search algorithms to find paths to food and minimax/expectimax to evade ghosts

Spreadsheet

- Built a terminal-based spreadsheet in Ruby designed to mimic the look and functionality of Microsoft Excel
- Users can store formulas/values within the cells and perform various mathematic and statistical operations

SKILLS

Languages: Python, Java, C, Ruby, SQL, Rust, HTML/CSS/JavaScript, PHP, ROS2

Other: Scrum Framework, Technical Writing, Git