

# Erin Crowley

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## EDUCATION

### James Madison University

*B.S in Computer Science, 3.49 GPA*

**Harrisonburg, VA**

*Graduated 12/2024*

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

## EXPERIENCE

### Chameleon Technology Partners

*Web Developer Intern*

**Oakton, VA**

*12/2023 – 11/2024*

- Improved a learning application by implementing a point-based system to incentivize learning achievements
- Developed the marketing website for the learning application
- Technologies include HTML, CSS, Bootstrap, PHP, MySQL

### Computer Science Department, James Madison University

*Teaching Assistant*

**Harrisonburg, VA**

*08/2023 - 12/2023*

- Provided one-on-one support to students by assisting with homework and programming assignments
- Assisted with projects using Java, Python, and C

### Virginia Space Grant Consortium, NASA Wallops Flight Facility

*Research Intern*

**Wallops Island, VA**

*06/2022 - 08/2022*

- Conducted a statistical analysis of regional precipitation data, analyzing trends over a 5-year timeframe
- Presented results as a technical report to the NASA Wallops Global Precipitation Measurement Team
- Technologies included Python (NumPy, Pandas, Matplotlib)

## PROJECTS

### Database System

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

### Pac-Man

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

### Film Review App

- Collaboratively followed the scrum framework to develop a web application showcasing targeted film details
- Individually wrote the portion responsible for finding and displaying film details to the user using Java

### Spreadsheet

- Terminal-based spreadsheet written in Ruby designed to mimic the 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, Rust, SQL, HTML/CSS/JavaScript, PHP

**Other:** Scrum Framework, Technical Writing, Git