Ryne Dean Acheson

301-377-1286 | RyneAcheson@gmail.com | LinkedIn | GitHub

EDUCATION

University of Maryland, College Park, MD
Bachelor of Science, Computer Science. Concentration: Machine Learning **Anticipated: Spring 2025**
Relevant Coursework: Design and Analysis of Computer Algorithms, Intro to AI, Advanced Data Structures, Intro to ML GPA: 3.86 | Dean's List

PROJECTS

Sudoku Generator and Solver (Python, HTML, CSS, Flask) **March 2024 – May 2024**

- Utilized AC-3 Algorithm and MRV and LCV heuristics to optimize Sudoku CSP problem
- Compared to a Brute Force Algorithm, reducing the number of moves required by up to 98.74%
- Compatible with the "Knight's Rule" restriction
- Optimized time complexity from O(9^81) to O(n^2)

SECU Case Competition (3rd place) **April 2024**

- Collaborated closely with three to propose high-quality business solutions to SECU executives, aimed at increasing student membership by 2500
- Interviewed 50+ UMD students to better understand target audience and inform our strategy
- Worked together to quantify program cost and the expected student membership increase
- Competed versus 20+ other teams, achieving 3rd place

Sunset Predictor (Python, JavaScript, HTML, CSS, React, Pandas) **May 2023 – September 2023**

- Given a U.S. zip code, predicts the sunsets for the next 3 days based on weather forecasts.
- Uses weather APIs to obtain pollution and weather data, sunset heights, and the location name.
- Website using React, JavaScript, and CSS that displays data neatly and concisely.

WORK EXPERIENCE

Market Concierge, *Central Farm Markets*, Bethesda, MD **January 2022 – August 2022**

- Organized market of 50+ vendors and 2000+ customers.
- Responded to 20+ customer inquiries per hour.
- Responsible for the collection of 10 pallets of produce per week to be donated to local food shelters.

LEADERSHIP / ORGANIZATIONS

Alpha Kappa Psi Business Fraternity, Member **April 2024 – Current**
Alpha Kappa Psi Business Fraternity, **Cohort Vice President** **February 2024 – April 2024**

INTERCOLLEGIATE ATHLETICS

University of Maryland – College Park, Division I Men's Football Team **March 2023 – Current**

- Academic All-Big Ten Fall 2023 (1 of 2 CS Student-Athletes @ UMD)
- Dedicated 30+ hours per week to training, practice, and games while maintaining a full CS courseload
- Collaborated with a diverse set of teammates and coaches to ensure certain goals are met through high levels of dedication and work ethic

SKILLS & INTERESTS

Programming Languages: Python, Java, C, SQL, JavaScript, HTML/CSS, OCaml, R, Rust, HTML
Frameworks/Version Control: PyTorch, NumPy, ReactJS, Flask, Git
Personal Interests: Logic puzzles, crossword puzzles, cooking, sports, fitness, hiking