Ryne Dean Acheson

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

EDUCATION

University of Maryland, College Park, MD   **GPA: 3.86 | Dean's List | 2x Academic All-Big Ten**
Bachelor of Science, Computer Science. Concentration: Machine Learning   **Anticipated: Winter 2025**
Relevant Coursework: Design and Analysis of Computer Algorithms, Applied Statistics, Intro to ML,
Object-Oriented Programming, Advanced Data Structures, Intro to AI, Linear Algebra, Data Science, Discrete Structures

PROJECTS

Sudoku Generator and Solver (*Python, HTML, CSS, Flask)***   March 2024 – May 2024**
- Utilized Arc Consistency Algorithm and Minimum Remaining Value and Least Constraining Value heuristics to optimize Sudoku constraint satisfaction problem
- Implemented more efficient algorithm, reducing the number of moves required by up to 98.74% and optimizing the time complexity from $O(9^{81})$ to $O(n^2)$
- Authored extensible code, compatible with the "Knight's Rule" restriction

NFL Dataset Analysis *(Python, TensorFlow, Pandas, Numpy, Git, Matplotlib)*   **February 2024 – May 2024**
- Collected, processed, and analyzed weekly and yearly data from 2012-2022 NFL dataset
- Applied ML techniques (Random Forest, K-NN, Neural Network) to classify and predict a running back's rushing yard output
- Created insightful data visualizations using Seaborn and Matplotlib to effectively communicate complex data insights to professors and peers

SECU Case Competition *(3rd place, Python, Pandas, NumPy, Jupyter Notebook)*   **April 2024**
- Proposed data-driven business solutions to SECU executives to increase student membership by 2500 through exploratory data analysis using Pandas and NumPy on a dataset of 50+ UMD student interviews
- Collaborated with three peers and a mentor to develop a project timeline, delegate tasks, and incorporate iterative feedback, ensuring deliverables were completed on time for competition deadlines
- Competed versus 20+ other teams, achieving 3rd place

INTERCOLLEGIATE ATHLETICS

University of Maryland – College Park, Division I Men's Football Team   **March 2023 – Current**
- Academic All-Big Ten 2023, 2024 (1 of 2 CS Student-Athletes @ UMD)
- George Boutselis Memorial Award – Letterman with Highest Academic Average
- Dedicated 30+ hours per week to training, practice, and games while maintaining a full CS courseload
- Effectively collaborated and communicated with a diverse set of teammates and coaches to ensure certain goals are met through high levels of dedication and work ethic

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, Cohort Vice President)   **February 2024 – Current**

TECHNICAL SKILLS & INTERESTS

Programming Languages: Java, Python, JavaScript, C, SQL, HTML/CSS, R *Learning:* C++
Frameworks/Libraries: NumPy, TensorFlow, Pandas, Flask, JUnit, ***Learning:*** Django
Tools/Platforms/Other: Git, GitHub, VS Code, PyCharm, Eclipse, Jupyter Notebook, RESTful APIs
Interests: Crossword Puzzles, Sudoku, Sports, Exercising, Hiking, Cooking, Rock Climbing