Micah Harlan

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EDUCATION

University Mary Washington   **Expected Graduation: May 2023**
Bachelor of Science, Computer Science
Overall GPA: 3.48
Major GPA: 3.62

Cox Highschool, Virginia Beach, VA   **June 2019**
Awards: National Honor Society, Graduated with honors

Relevant Courses*:* Computer Programming and Problem Solving, Software Development Tools, Object-oriented Analysis and Design, Computer Systems and Architecture, Data Structures and Algorithms, Applications of Databases, Modeling & Simulation. Applied Discrete Mathematics, Introduction to Data Science, Computer Ethics

RELEVANT EXPERIENCE

UMW Data Mavens
Member of the UMW Data Science Club   **Fall 2020-Present**
- Participated in data themed movie nights
- Partake in various contests and challenge

University Mary Washington Data-thon   **Apr 10 - Apr 12. 2022**
In this competition we were given a large file of data about an experiment that was done on students. The experiment was testing if video games where a student made good choices, would make students more likely to make good choices. I chose to create an agent-based model using MESA in python that simulated the experiment. I also made a machine learning algorithm that would take in results from a participant in the experiment then it would predict the participant's gender.

ADDITIONAL EXPERIENCE

Vice President of UMW Outdoors Club.   **Fall 2019-Present**
In this club we plan various outdoor excursions. I have been a member of this club since my freshman year. At the beginning of my junior year, I was elected vice president. Since then, I have planned various ski trips, hikes, and camping trips.

MEMBERSHIPS

Member of the National Society of Collegiate Scholars (NSCS)   **Fall 2020-Present**

SPECIALIZED SKILLS

Skills: Object Oriented Programming, System Based Modeling, Agent Based Modeling, Web Development, Data analysis
Programming Languages: Java, C, Python, Swift
Databases: SQL, MongoDB, MariaDB, Neo4j, Redis
Python Libraries: Pandas, NumPy, Flask, NetworkX, Mesa, Matlab
Other: HTML, JSON
Foreign Languages: French (intermediate)