

Aafaf Sophia Moustafa

aafaf@umich.edu | (734)-489-5569 | Ann Arbor, MI 48109
<https://asmoustafa.github.io/Portfolio/>

EDUCATION

University of Michigan

- **Bachelor's Degree:** Computer Science
- **Bachelor's Degree:** Information Science: User-Experience Design
- **GPA:** 3.8/ 4.0
- Mastered C++ and Figma, Proficient in Python, HTML, CSS, and JavaScript

Ann Arbor, MI
December 2025

Washtenaw Community College

- **Associate Degree:** General Studies in Math and Natural Sciences
- **Associate Degree:** Liberal Arts Transfer
- **GPA:** 3.98/ 4.0

Ann Arbor, MI
May 2021

Washtenaw Technical Middle College

- **Highschool Diploma**
- **GPA:** 3.97/ 4.0

Ann Arbor, MI
May 2021

DEVELOPMENT AND DESIGN EXPERIENCE

- **Pokemon: TSP and Knapsack** **April 2023**
 - Mastered the use of high-level sorting and path-finding algorithms, as well as dynamic programming
 - Created an adaptable program that takes in data of coordinate points and utilizes heuristic programming and graph theory to efficiently find somewhat optimal paths or the most optimal path that visits each vertex in a map
- **Relational Database** **March 2023**
 - Advanced expertise in elaborate data structures as well as optimizations of time and space
 - Created a complex data structure, leveraging hash tables to efficiently store and retrieve data pragmatically (SQL)
- **Machine Learning** **June 2022**
 - Developed a program to automatically identify the subject of forum posts via natural processing and ML techniques
- **UX Design: NOAA Website Redesign Case Study *** **August 2023 - December 2023**
 - Collaborated closely with the client and conducted comprehensive website evaluations to identify usability issues and implement enhanced user experiences
 - Utilized UX design principles to create wireframes, prototypes, and mockups for the redesigned mobile and desktop platforms, resulting in polished interfaces and intuitive designs
- **UX Research: Ann Arbor Vision Zero Case Study** **June 2023**
 - Conducted surveys, interviews with young adults in Ann Arbor to understand their communication preferences while analyzing the city's existing communication channels for engaging with residents on road safety measures.
 - Presented findings and recommendations to AA Vision Zero stakeholders for consideration and implementation.
- **UX Design: Dearborn Administrative Center Case Study** **March 2023**
 - Led a team of student designers and researchers to create an efficient flow of movement in the government office
 - Analyzed social dynamics and human behavior to better understand and design persuasive messages
 - Created solution-based campaigns to solve behavior-change problems utilizing persuasion and influence strategies
- **UX Design: Portfolio Website** **November 2022**
 - Programmed with HTML, CSS, and JavaScript with flex and grid structures and media queries to ensure compatibility with all screen widths.
 - Completed usability testing to ensure its functionality and accessibility for online inclusivity

LEADERSHIP EXPERIENCE

MASH MAGAZINE

Web Design Chair

- Utilized proper UX heuristics to maximize the user experience, design aesthetic, and maintain an engaging site.

Ann Arbor, MI
January 2023 - August 2023

University of Michigan North African Student Association

Social Media Director and Design Coordinator

- Developed and executed media strategy resulting in a 41.4% and 5,650% increase in followers and engagement

Ann Arbor, MI
August 2022 - August 2023

RELEVANT CLUBS: GEECS - Girls in Electrical Engineering and Computer Science, SWE: Society of Women Engineers

SKILLS AND AWARDS

- Awarded Summa Cum Laude for maintaining an unweighted GPA above 3.9 while receiving early college associate degrees
- UofM Olympic Weightlifting focused on strength training heightens mind-body connection and time management skills
- Experienced in Microsoft Word, PowerPoint, and Excel
- * Showcased as an Exemplary Theme Project of the Year by UofM School of Information