

Aafaf Sophia Moustafa

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EDUCATION

University of Michigan

Bachelor's Degrees: Computer Science and Bachelor of Information Science: UX Design

Ann Arbor, MI
May 2025

- **GPA:** 3.8 / 4.0
- Proficient in C++, Python, HTML, CSS, JavaScript, and a novice in Figma

Washtenaw Community College

Ann Arbor, MI
May 2021

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

Washtenaw Technical Middle College

Ann Arbor, MI
May 2021

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

RELEVANT PROJECTS

- **Traveling Salesperson and Knapsack** **April 2023**
 - Became proficient in the use of high-level sorting and path-finding algorithms and dynamic programming
 - Calculated the MST, researched and implemented algorithms to prioritize speed and approximate the TSP
 - Utilized a branch and bound algorithm to calculate the optimal weight of the TSP
- **Relational Database** **March 2023**
 - Advanced expertise in elaborate data structures as well as optimizations of time and space
 - Leveraged hash tables to efficiently store and retrieve data from a collection of records
- **Machine Learning** **June 2022**
 - Developed a program to automatically identify the subject of forum posts via natural processing and ML techniques
 - Efficiently used recursion, binary search trees, and dynamic memory
- **Image Resize Program** **May 2022**
 - Built a program to crop images in a content-aware fashion: sifts through content to remove unimportant pixels
 - Created a seam-carving algorithm and mastered debugging, pointers, linked structures, and best practice testing
- **UX Design: Dearborn Administrative Center Case Study** **March 2023**
 - 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

Ann Arbor, MI

Web Design Chair

January 2023 - Current

- Demonstrated proficiency in UX Design and Computer Science principles by enhancing the online platform
- Utilized proper UX heuristics to maximize the user experience, design aesthetic, and maintain an engaging site.
- Collaborated closely with the editorial team to align the themes and goals of the organization with the deliverable

University of Michigan North African Student Association

Ann Arbor, MI

Social Media Director and Design Coordinator

August 2022 - Current

- Developed and executed media strategy resulting in a 41.4% and 5,650% increase in followers and engagement
- Designed attractive, informative flyers to adequately package core club values into demographic-specific content.
- Employed interactive stories and valuable advertising, to convert online transactions into real-world interactions.

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 associate degrees
- Experienced in Microsoft Word, Powerpoint, and Excel
- University of Michigan Olympic Weightlifting focused on strength and resistance training helps mind-body connection and heightens time management skills