MOUSTAFA HABRA

moustafa.habra@gmail.com • (248) 622-0241 • moustafa.io • West Bloomfield, MI

UMich with B.S. in **Biophysics** and **CS** experience. Very interested in how computer science can play a role in medicine.

EXPERIENCE

Teaching Assistant, University of Michigan   AUG 2022 – MAY 2023
- Teaching assistant role for Biophysics 450/550, the biophysics lab class.
- Graded student papers and answered student questions
- Set up and further developed experiments and assisted the professor and GSI with lab work and setup.

Nurse Aide, Beaumont Hospital   JUN 2022 – AUG 2023
- Worked as a Nurse Aide in Beaumont Hospital, Taylor during a COVID wave.
- Took patient's vitals and blood sugar, gave them their meals, and assisted nurses with their care.

Volunteer, Beaumont Hospital   DEC 2021 – Present
- Volunteered on the Medical/Surgical floor
- Helped patients with simple comfort care
- Assisted nurses, and aided in administrative tasks.

Research Assistant, UMich Radiology   FEB 2020 – DEC 2020
- Assisted Dr. Scott Swanson with biophysics research
- Specifically nanobubble simulation in MRI research, and its possible use as contrast in MRI

Resident Caregiver, First & Main Assisted Living   JUN 2021 – AUG 2021
- Assisted with caring and serving elderly residents
- Became especially involved with activities, and started a book club initiative.

Service Mechanic, D&D Bicycles and Hockey   JUN 2020 – AUG 2020
- Built Giant brand bicycles
- Learned how to service old bicycles.

Gifts of Art Volunteer, Michigan Medicine   FEB 2020 – APR 2020
- Would visit patients in their rooms, and change art on their wall if needed.
- Highly rewarding, as I could interact with many patients directly.

Research Assistant, Beaumont Hospital   FEB 2020 – APR 2020
- Worked in research with the colorectal department,
- Contributed to a published medical study, dealing with the ERAS protocol and admission day of the week its effect on length of stay.

EDUCATION

University of Michigan, BS Biophysics   2019 – 2023

International Academy, IB diploma   2015 – 2019
- Graduated Summa Cum Laude

SKILLS

- Python, C++, MATLAB, shell scripting, Excel
- Fluent in English, Arabic, & Spanish
- Biophysics Lab Techniques: Circular Dichroism, Calorimetry, IR spectrometry, Protein Extraction & Purification, NMR, Molecular Dynamics

ACTIVITIES

- **Students Organize 4 Syria** Refugee Volunteer
  - Gave lessons in Arabic & English to Syrian Refugees