Mariam Mahmoud

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Education

University of Michigan - Ann Arbor
BS in Computer Science - May 2023, GPA: 3.711/4.0
Relevant Courses: Programming and Data Structures, Discrete Mathematics, Data Structures and Algorithms, Foundations of Computer Science, Computer Security, Web Systems, Software Engineering

Experience

University of Michigan - Ann Arbor
Instructional Aide for Web Systems   Aug 2022- Present
➔ Teach a weekly lab section to 30 students.
➔ Facilitate student success by helping with general issues, projects, and questions in office hours for an upper level course with over 400 students.
➔ Develop test questions and perform administrative tasks.

Computing Cares Instructional Aide   May 2021 - Present
➔ Plan and coordinate panels directed at underrepresented students in the Electrical Engineering and Computer Science track at the university for audiences of 50-200 students.
➔ Work towards fostering inclusivity and a comfortable, welcoming environment within the department.

Instructional Aide for Programming and Data Structures   Jan 2021 - Apr 2022
➔ Taught a weekly lab section to 30 students.
➔ Facilitated student success by helping with general issues, projects, and questions in office hours for a course with over 1,200 students.
➔ Developed test questions and perform administrative tasks.

Instructional Aide for Elementary Programming Concepts   Aug 2020 - Dec 2020
➔ Taught a weekly lab section to 30 students.
➔ Facilitated student success by helping with general issues, projects, and questions in office hours for a course with over 1,000 students.
➔ Developed test questions and perform administrative tasks.

Amazon
Software Development Engineering Intern   May 2022 - Jul 2022
➔ Save developer time by creating an application that automatically detects anomalies in business and team metrics. Used Flask, React, and AWS services.

Phonica
Chief Technical Officer, Full-Stack Developer   Dec 2020 - Aug 2021
➔ Led the development of an API to store and retrieve user information (most importantly speech stutters) such as their previous audio and video analyses.

Ford Motor Company
Software Engineering Intern   May 2021 - Jul 2021
➔ Worked on the Ford Member Authentication team on login/registration flows used by multiple Ford properties and millions of customers around the globe.
➔ Developed reusable components to save developer time and energy in the future.
➔ Implemented time-saving components for users such as autoformatting of inputs.

Information Technology Intern   Jun 2020 - Jul 2020
➔ Developed a Vehicle Line Reservation System for the entire Product Definition and Offering (PDO) department with a team of other interns. Used XHTML, CSS, PrimeFaces, and J2EE.
➔ Worked with experienced developers on an application to present different groups within Ford with more valuable vehicle information. Used HTML, CSS, Angular, PrimeFaces, and the Spring Framework.

Skills

C/C++, Python, Java, HTML, CSS, JavaScript, ReactJS, TypeScript, Express, Flask, AWS, SQL

Volunteering

Michigan Council of Women in Technology
Volunteer, Speaker
Dec 2018 - Present

AAPS Hour of Code
Website Creator
May 2019 - Oct 2019

Awards

Sister Mary Ambrosia Fitzgerald Mentorship Award
University of Michigan WISE

CSE IA Honorable Mention Award
University of Michigan

James B. Angell Scholar
University of Michigan

William J. Branstrom Freshman Prize
University of Michigan

Girls Go Cyberstart 1st Place State Prize
SANS Institute, Presented by Governor Gretchen Whitmer

Lear Corporation Scholarship Recipient
Lear Corporation + Michigan Council of Women in Technology

Gloria Wille Bell and Carlos R. Bell Scholarship Recipient
University of Michigan

1st Place Website Design Team - National Leadership Conference
Business Professionals of America

Michigan Affiliate Winner
National Council of Women in Technology

1st Place Advanced Website Design Competition
Michigan Council of Women in Technology