Mariam Mahmoud

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Education

University of Michigan - Ann Arbor
BS in Computer Science - May 2023, GPA: 3.751/4.0
Relevant Courses: Programming and Data Structures, Discrete Mathematics, Data Structures and Algorithms, Foundations of Computer Science, Computer Security, Web Systems, Software Engineering, Database Management Systems, Information Retrieval

Experience

University of Michigan - Ann Arbor
Instructional Aide for Web Systems   Aug 2022 - Apr 2023
➔ Enhanced the learning experience of 30 students by consistently delivering engaging and informative weekly lab sections
➔ Successfully supported 400+ students in an upper level course by offering comprehensive assistance, addressing concerns, guiding projects, and resolving questions during office hours, leading to improved student success rates
➔ Designed and created test questions and performed administrative tasks to ensure smooth course operations

Computing Cares Instructional Aide   May 2021 - Apr 2023
➔ Planned and coordinated panels directed at underrepresented students in the Electrical Engineering and Computer Science track at the university for audiences of 50-200 students
➔ Worked towards fostering inclusivity and a comfortable, welcoming environment within the department

Instructional Aide for Programming and Data Structures   Jan 2021 - Apr 2022
➔ Enhanced the learning experience of 30 students by consistently delivering engaging and informative weekly lab sections
➔ Led the maintenance of all 5 large course projects by maintaining the course autograder and writing scripts for more equitable grading (e.g. better detection of disallowed libraries)
➔ 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 performed administrative tasks

Instructional Aide for Elementary Programming Concepts   Aug 2020 - Dec 2020
➔ Enhanced the learning experience of 30 students by consistently delivering engaging and informative weekly lab sections
➔ 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 performed administrative tasks

Amazon
Software Development Engineering Intern   May 2022 - Jul 2022
➔ Significantly increased developer efficiency by conceptualizing and developing a solution that automates the detection of anomalies in business and team metrics, saving valuable time and resources
➔ Played a pivotal role in streamlining data analysis processes and empowering stakeholders to make data-driven decisions promptly, resulting in improved operational efficiency and informed decision-making

Phonica
Chief Technical Officer, Full-Stack Developer   Dec 2020 - Aug 2021
➔ Led the development of a product to help those who stutter work towards resolving their speech disfluencies even after the conclusion of speech therapy

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
➔ Worked with other interns to develop a Vehicle Line Reservation System to smoothly facilitate application testing among the team's engineers
➔ Worked with experienced developers on an application to present different groups within Ford with more valuable vehicle information

Skills

HTML   Python   AWS

CSS   SQL   Java

C/C++   ReactJS   Flask

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