

Marwa Chbeir

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EDUCATION

UNIVERSITY OF MICHIGAN - DEARBORN

Bachelor of Science in Computer Science & Cyber Security

Dearborn, Michigan

Graduation: MAY 2026

- **GPA:** 3.9/4.0
- **Related coursework:** Computer Science I & II (C++), Discrete Structures, Linear Algebra, Data Structures & Algorithms, DBMS, Web Tech, Computer Networks & Distributed Processing, Software Engineering I

RELEVANT EXPERIENCE

CLEVELAND CLIFFS

Software Engineering Intern

Detroit, Michigan

JUNE 2024 - Current

- Built C#/VB.NET features to fetch and propagate user data across forms using OOP, with unit tests and user-story-driven development for reliable workflows.
- Supported company-wide PC refreshes and improved database search functionality to quickly display relevant user data.

COMERICA BANK

Cyber Security Risk Analyst Intern

Auburn Hills, Michigan

MAY 2025 - August 2025

- Designed and implemented 13 interactive screens with Material 3 UI, customizable security controls, and dynamic transaction monitoring in a full-stack Android app built with Jetpack Compose and TensorFlow Lite, enabling real-time fraud detection, biometric login, and AI-based credit score adjustments.
- Automated internal tasks using C++ to streamline workflows and improve efficiency.

AI CODE ACADEMY

STEM Instructor

Dearborn, Michigan

AUGUST 2023 - Current

- Taught intermediate Python and C++ online to 10–18-year-olds, focusing on GUI apps, OOP, and data analysis through projects.
- Led multiple 10-week sessions (4–8 students each), fostering curiosity, critical thinking, and problem-solving skills.

GOOGLE

Computer Science Summer Institute Participant

Dearborn, Michigan

JUNE 2022 - August 2022

- Developed and debugged small-scale projects, including algorithmic challenges and data structure implementations.
- Studied computer architecture, database management, networking, and cybersecurity fundamentals.

LEADERSHIP & ACTIVITIES

SpeedEye Android App

SEPTEMBER 2024 - April 2025

- Developed an application in Java to track vehicle speeds with OpenCV for real-time data processing and pixel calculations.
- Supports identification of unsafe areas in Dearborn, aiding the City Department of Health in traffic planning.

E-pharmacy Platform

JANUARY 2024 - December 2024

- Designed a user-friendly pill categorization system and data model for products, users, and transactions.

3D Block-Game

JANUARY 2024 - May 2024

- Spearheaded the development of a 3D block game in C at 60 FPS with random block generation.
- Implemented a structured data model for efficient management of user data and game state.

SKILLS & INTERESTS

- **Technical:** Fluent in C++, C, C#, HTML, PHP, CSS, Python, JavaScript, X86-Assembly, VB.Net, SQL. Intermediate in Java, Kotlin, Android Development, PyTorch, TensorFlow, and Unity.
- **Language:** Fluent in English and Arabic.
- **Interests:** Hackathons, Cybersecurity, Women Who Code, Rock Climbing, Michigan Council of Women in Technology