

Mostafa Al-sawaf

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EDUCATION

Eastern Michigan University

Computer Science B.S, Computer Engineering Minor - In Progress

Henry Ford Early College

General Education— Completed

- o Relevant Courses: C, C# C++, Java, Discrete Mathematics, Software Engineering, Principles of Programming, Web Development, SQL Database Development.

SKILLS

- o **Languages** C, C++, C#, Python, Java, PHP, JavaScript, SQL, HTML, CSS, GDScript, Swift.
- o **Tools:** Git, Jupyter Notebook, Visual Studio, Godot, IntelliJ, JavaFX, Xcode.

PROJECTS

[iOS Mobile App: Crumbelievable](#)

- o Worked in a team to create an app for a client who wanted to take their business to the next level. The app allows customers to manage their account, create orders, and take part in a rewards system.
- o Used Swift and Xcode

[C++ Simulated Language and CPU/Memory](#)

- o Created a simulation of a programming language and CPU/memory. The project allows you to write code with custom syntax that I created.
- o Used C++ and Visual Studio Code.

[Java Audio Player](#)

- o Designed and implemented a Java-based audio player application enabling users to create and play playlists from their local computer files.
- o Used Java, JavaFX, Java Media Player, and GitHub.

[Face Detector and Motion Tracker](#)

- o Developed a camera app that creates a square that follows movement or a person's face. Records the times when there was movement and creates a graph that displays when the movement happened.
- o Used Python, cv2, bokeh, pandas.

EXPERIENCE

Certification: Information Technology Specialist in Software Development

- o Certified in Software Development, having successfully completed a comprehensive certification exam. Demonstrated proficiency in software development concepts, tools, and techniques. This certification highlights a commitment to continuous learning and professional development in the field of software engineering.

Software Engineering Class

- o The course involved collaborative development within a four-team structure, focusing on creating a comprehensive software solution for a coffee shop. I was a member of the Mobile Application Team. Our primary task was to develop an iOS mobile app using Swift and Xcode for the coffee shop project. Through collaborative efforts, we successfully delivered a functional and user-friendly mobile app, showcasing our proficiency in mobile app development and teamwork.

C++ Programming Class

- o Completed an intensive C++ course, acquiring proficiency in the language's syntax, principles, and best practices. Developed practical skills in software development and problem-solving through hands-on projects and assignments.

Java Programming Class

- o In this course, I developed a comprehensive understanding of Java fundamentals and applied them to create an audio player program for the final project. This experience enhanced my proficiency in Java programming, Classes, software development, and problem-solving.

C Programming Class

- o In the C Programming course, I gained proficiency in the C language and showcased my skills by developing a program for the final project that utilized structures. This experience enhanced my understanding of low-level programming concepts, algorithm design, and data manipulation in C.