**Shahd Mustafa**

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# OBJECTIVE

Seeking an internship/job in software engineering where I can apply my strong technical skills, passion for innovation, and coursework knowledge in data structures, algorithms, and software development.

# EDUCATION

**University of Michigan -- Dearborn |** B.S. Software Engineering Expected Graduation: May 2024

* Relevant Coursework: Data Structures and Algorithms, Operating Systems, Database Management Systems, Discrete Structures and Computer Networks and Distributed Processing.
* Organization: Google Developers Club, Developers of Dearborn, Society of Women Engineers, Devfest Organizer

# SKILLS

**Tools and technologies:** C++/C, C#, Java, Python, HTML**/**CSS, JavaScript/TypeScript, Dart, Kotlin, Git/GitHub, React, Flutter, Firebase, Unity, Atom, Enterprise Architect, Jenkins, Android studio, oracle SQL developer, Azure, Microsoft Office

**Languages:** English – fluent, Arabic – fluent

**Hobbies:** Drawing/painting, reading

# WORK EXPERIENCE

**Flutter Development,** Book Club, Freelance Sept.2023– Present

* Developing a dynamic **Flutter** app, a social media platform for friends and family to review books and connect with fellow readers. Utilizing **Firebase** authentication and database.
* Users can post reviews to a community feed, like and comment on posts, view user profiles, message other users, and track and set reading goals.

**Research Assistant,** Recommending Web Services Based on Quality of Information via Comparison Testing

University of Michigan, with Professor Song Sept. 2022 – Dec. 2022

* Created a new dataset that obtains the sentence embedding matrix using data from 5 major cities.
* Contributed to developing a program utilizing a dataset of 2000+ movie reviews to analyze whether each API correctly identified the text. Developed predictive software and analyzed the accuracy of the API in determining the text using majority voting.

**PROJECTS**

**Michigan DevFest -** [Michigan DevFest 2023 (midevfest.com)](https://midevfest.com/)November 2023

* Contributed to developing the Michigan DevFest website as a key member of an 8-person cross-functional team, utilizing **React** and **Tailwind CSS** to deliver a website that over 270+ participants and speakers used to navigate the event.
* Played a key role in strategic decisions, aligning development with project goals. Successfully delivered the landing page on time, exceeding project expectations.

**Edu-Venture -** [hackathon site-register (shahdmu34.github.io)](https://shahdmu34.github.io/Hackathon/)October 2023

* Developed a web application using **HTML/CSS, JavaScript**, **Firebase**, and **Python** a game that transforms the career exploration process into an engaging and immersive storyline adventure. Our project won second place at the Hackathon Dearborn out of 50 project submissions.
* Edu-Venture utilizes an AI algorithm to pinpoint the career path that best suits the student, providing an immersive experience that keeps students actively involved in their future.

**Personal Website****-** [My Portfolio (shahdmu34.github.io)](https://shahdmu34.github.io/portfoilio-site-shahdmustafa/) April 2023

* Designed and developed personal websites using **HTML/CSS** and **JavaScript** showcasing projects, resume, contact information, etc.

**ACADEMIC PROJECTS**

**My Pass** – <https://shahdmu34.github.io/TermProject-476/>November 2023

* Developed a web application utilizing **HTML/CSS, JavaScript**, and **Firebase**. The application ensures a secure and user-friendly experience, allowing users to store sensitive information, including site authorization credentials, credit card details, license numbers, passport numbers, and secure notes. This project involved the implementation of design patterns such as proxy, Singleton, Observer, and Builder to enhance the overall structure and functionality of the application.

**Hotel Room**  November 2023

* Implemented a hotel room bidding system in **Java**, the system utilized the chain or responsibility design pattern to handle customer bidding determining whether to accept a bid request based on the price entered and the number of rooms available.

**Read and Review Mobile App** May 2023

* Developed and collaborated on an Android mobile app that allows users to search and review thousands of books by integrating the Google Book API using **Kotlin** and Android Studio.

**Restaurant Database** April 2023

* Led a team of 3 to develop a comprehensive **SQL** database for a restaurant.
* A comprehensive set of tables was designed to capture all aspects of the restaurant, including staff, supplies, inventory, and more, including necessary attributes and key relationships.

# CERTIFICATIONS

**Electronic Arts Software Engineering Virtual Experience Program on Forage** July 2023

* Developed and presented a compelling new game feature proposal. Enhanced the inventory system through the implementation of C++ programming techniques.