Mustafa Soby

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PERSONAL SUMMARY

Masters in computer science student looking for a **full time** or **intern** software engineering role. Available **now**.

EDUCATION

The University of Texas at Austin   Graduation: December 2025
M.S. in Computer Science

The University of Michigan - Dearborn   Graduated: April 2023
B.S. in Computer Science   *GPA:* **3.97**

Relevant Coursework
- Deep Learning (@UT), Data Structures and Algorithms, Artificial Intelligence, Natural Language Processing, Software Engineering, Linear Algebra, Discrete Math, Game Development

TECHNICAL SKILLS
(descending experience)

- **Languages:** TypeScript/JavaScript/Node.js • Python • Java • C# • C++ • SQL • HTML/CSS
- **Tools:** Intellij • JetBrains Suite • Visual Studio Code • Visual Studio • XCode • Unreal Engine • Unity
- **Frameworks/Methodologies:** React • Firebase • Git • WinForms • WPF • REST • Selenium

WORK EXPERIENCE

GE Aviation - Cincinnati, OH
Digital Technology Intern   May 2022 - August 2022
- Modularized and migrated Siemens TeamCenter templates from Apache Subversion to **GitHub** and added them to a **Jenkins CI/CD**.
- Produced **Conan** recipe files to package a **C/C++** codebase for distribution across a large organization.
- Documented the design process of Conan scripts to standardize module packaging for **30+** developers.
- Reduced build times by **95%** through adding a shell script generator to conan recipe files.

Technical Computer Services - Dearborn, MI
Software Engineer Intern   May 2021 - May 2022
- Developed a **WinForms** app using **C#** to automate product entry saving the company **$7,900**.
- Utilized WinForms and an **MSSQL Server** database to coordinate remote desktop access between employees. Achieved by tracking in-use machines through a server over **RDP** to prevent collisions.
- Applied **regression testing** on software updates before release to prevent database corruption.
- Generated excel reports weekly to update customers on project deadlines by using **MySQL** queries.

Noor Diagnostic Lab - Dearborn, MI
Software Developer   April 2021 - June 2021
- Built a WinForms application to encrypt and email pdfs to covid patients by automating three major tasks in the lab's workflow reducing person work hours by **40%**.

PERSONAL PROJECTS

Lead Backend Admin - University of Michigan Dearborn   September 2022 - December 2022
- Served as the lead backend admin for **LAMP** applications hosted on the university's servers to manage all students' projects for one semester.

Senior Design Capstone KymaNYC - University of Michigan Dearborn   September 2023 - May 2023
- Collaborated with a team of five to build a customizable e-commerce website using **NextJS**, React, TypeScript, Firebase, and Stripe to process purchases. See site at: https://kymanyc-313.web.app
- Successfully met the client's unique requirement to host and manage the website at **zero cost**, by leveraging cost-effective platforms and open-source solutions.