

Sam Malik

https://sammalik111.github.io/website_portfolio | shahmeer787@live.com | (760) 212-0696 | Ann Arbor, MI

EDUCATION

University of Michigan: Ann Arbor

Bachelor of Science in Engineering in Computer Science

Ann Arbor, MI

SEP 2019 - AUG 2024

Course Highlights: Discrete Mathematics, System Architecture, Computer Security, Artificial Intelligence, Advanced Data Structures & Algorithms, Advanced Business Analytics, Statistics and Data Analysis, Software Engineering, User Interface Development, Data Analytics

CET Summer Academic Programs

Study Abroad Program

Amman, Jordan

MAY 2024 - Present

- Participated in cultural and industrial excursions to understand intricacies of Arab culture and business.
- Completed coursework in Software Engineering and Modern Standard Arabic and Jordanian Dialect.

WORK EXPERIENCE

Employment Training Intern

Talent Beyond Boundaries

Amman, Jordan

MAY 2024 - Present

- Conducted English training sessions to improve refugees' employability and language proficiency.
- Facilitated acquiring passports and travel documents to aid refugees in relocating to safer countries.
- Prepared refugees for technical interviews by conducting mock interviews with feedback on technical and soft skills.

Software Engineer

University of Michigan

Ann Arbor, MI

OCT 2023 - MAY 2024

- Consolidated multiple anatomic 3D models sourced from modeling libraries such as OpenJSCad and ThreeJS into a unified object file format by optimizing the models for commercial and business export purposes by meshing them together effectively.
- Accomplished the development of a new website using Vite and ReactJS as measured by enabling parametric human body modeling for hospitals by incorporating 3D models that allow for the design of patient-specific equipment based on 6 unique parameters.
- Accomplished a 10% increase in efficiency as measured by the improved scheduling and execution of project update meetings by collaborating within a professional environment to revamp the website, implement new frameworks, and enhance backend routing while working with faculty.

SKILLS

Javascript, C#, C++, Python, HTML, CSS, R, NodeJS, React JS, React Native, Sanity IO, Stripe, Redux, LaTeX, GDB, Autopsy, Docker,, Git, ThreeJS, OpenJSCad, MongoDB, numPy, SQL, Vue.js, bootstrap, VS Code, Linux, Xcode, Unity, python sockets

PERSONAL PROJECTS

Malik Ecommerce

- Developed an interactive full-stack e-commerce website as measured by enhanced user engagement and transaction efficiency by integrating 'Toast,' a commercial feedback API for real-time transactional updates.
- Engineered a product database and payment system measured by real-time payment processing by utilizing ReactJS and NextJS alongside Sanity IO for product storage and management, and integrating Stripe for handling backend payments from active users.

Multi Cycle Processor Simulator

- Designed a two-stage simulator for a multi-stage processor pipeline as measured by successful conversion of assembly files in LegV8 to C language machine code by developing a virtual processor registry and stack that mimics a computer processor.
- Enhanced program performance and accuracy as measured by optimized execution times and reduced errors by debugging and troubleshooting edge cases using the VSCode debugger to address data and control hazards and ensure the stall pipeline is optimized for the fastest execution time possible.

Selik Rental App

- Developed a transportation app for college students using React Native measured by increased convenience and cost-effectiveness by integrating multiple transport options into a single platform and designing 10+ custom JSX pages for improved user experience.
- Managed vehicle inventory and trip data as measured by improved database efficiency by leveraging Sanity.io for handling data sets.
- Implemented secure user authentication as measured by enhanced cybersecurity and login reliability by using Auth0 for global state management and Redux for local state management.