Sam Malik

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EDUCATION

University of Michigan: Ann Arbor   **Ann Arbor, MI**
Bachelor of Science in Engineering in Computer Science   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   **Amman, Jordan**
Study Abroad Program   MAY 2024 - AUG 2024
- 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   **Amman, Jordan**
Talent Beyond Boundaries   MAY 2024 - AUG 2024
- 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.
- Developed and implemented training programs tailored to the specific needs and skill levels of refugees, ensuring they are well-prepared for the job market.

Software Engineer   **Ann Arbor, Mi**
University of Michigan   OCT 2023 - MAY 2024
- Worked on meshing of multiple anatomic 3D models sourced from modeling libraries such as OpenJSCad and ThreeJS, consolidating them into a unified object file format optimized for commercial and business export purposes.
- Developed a new website using Vite and ReactJS incorporating said models into a 3D website with parametric human body modeling for hospitals to design specific patient equipment based on 6 unique parameters.
- Collaborated within a professional environment, working with faculty in scheduling and execution of project update meetings, focusing on revamping the website, implementing new frameworks and backend routing resulting in a 10% increase in efficiency.

SKILLS

Javascript, C#, C++, Python, NodeJS, ReactJS, React Native, HTML, CSS, Sanity IO, Stripe, R, Redux, VSCode, Linux, Xcode, , Photoshop, Management skills, LaTex, GDB, Autopsy, Docker, PY sockets, NumPy, Git, ThreeJS, OpenJSCad, MongoDB, Figma, SQL

PERSONAL PROJECTS

Malik Ecommerce
- Created an interactive full stack website for e-commerce with 'Toast', a commercial feedback API for transactional updates.
- Programmed using ReactJS and NextJS framework in conjunction with Sanity to store and manage a database of products used in conjunction with the Sanity client dashboard and Stripe to handle real time back-end payments from active users on the website.

Multi Cycle Processor Assembler and Simulator
- Worked on designing a two-stage simulator for a multi-stage processor pipeline. Inputting assembly files in LegV8 converts them to C language machine code which is then simulated by a computer processor that mimics a virtual processor registry and stack.
- Debugged and troubleshooting using VSCode debugger for edge cases ensuring the program accounts for data and control hazards and stall pipeline for fastest execution time possible

Selik Rental App
- Designed an app to help college students use ANY form of transportation, all organized in one app for convenience and cost.
- Developed a high-level mobile application using React Native, featuring a user-friendly interface with over 10 custom JSX pages.
- Leveraged Sanity.io for efficient database management, handling vehicle inventory data and their recent trips for each car.
- Implemented Redux for local state management and Auth0 for login functionality and cybersecurity for secure user authentication for global state management.