Mary Musallam

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EXPERIENCE

Software Development Engineer

Maxar Technologies   *April 2023 - July 2024, Ypsilanti, MI*

- Fixed over 20 critical bugs, improving codebase stability and reducing the number of reported issues.
- Developed user-friendly GUIs for complex software applications using Vue.js, HTML, and CSS, improving task efficiency for end-users by 15%.
- Delivered software solutions on tight deadlines, meeting the critical needs of government clients.
- Collaborated with algorithm engineers to develop advanced signal processing solutions for Synthetic Aperture Radar (SAR) systems, contributing to improved data processing accuracy.
- Enhanced Python pipeline functions, increasing test coverage in GitLab CI/CD processes by 30%.

Software Development Intern

U.S. Bank   *June 2022 - August 2022, Remote, MI*

- Developed internal tracking applications using Power Apps and JavaScript, improving efficiency by 30%.
- Built and implemented an email rules system in Power Apps, automating workflows and reducing manual processing time by 20%.
- Deployed and managed applications using Microsoft Azure, enhancing reliability and scalability.
- Provided regular updates during team standup meetings, ensuring timely project delivery.

Software Developer

Tech 4 Social Good   *February 2022 - April 2022, Ann Arbor, MI*

- Built an online learning platform for Detroit Community Technology Project, contributing to the expansion of access to wireless networking curricula for over 500 anticipated users in Detroit communities.
- Developed platform features using Vue.js, HTML, and CSS, ensuring alignment with nonprofit design specifications
- Integrated a REST API to import and update course data, preparing the platform for real-time accuracy and current information upon launch.

PROJECTS

Instagram Clone (3-Part School Project)

University of Michigan   *January 2022 - March 2022*

- Designed and implemented an SQLite database for managing users, posts, comments, and likes; optimized SQL queries for efficient data retrieval and storage.
- Developed a Python-based static site generator to convert JSON data into HTML templates, automating the creation of static content.
- Created a REST API to handle CRUD operations, enabling real-time data updates and interaction through AJAX calls.
- Implemented both server-side and client-side dynamic pages, showcasing a full-stack data flow from the database to the user interface.

EDUCATION

Bachelor of Science in Engineering in Computer Science

University of Michigan • Ann Arbor, MI • April 2023

- Course Highlights: Algorithms and Data Structure, User Interface Development, Programming and Introductory Data Structures, Elementary Programming Concepts, Cyber Security

Associate of Science & Engineering

Schoolcraft College • Livonia, MI • June 2018

SKILLS

Programming Languages: Python, SQL, C, C++, JavaScript

Web Development: HTML5, CSS3, JSON, RESTful APIs

Database Management: SQL Query Writing, Database Design, Data Modeling, MySQL

Tools & Platforms: Git, GitHub, GitLab CI/CD, Microsoft Azure, Power Apps

Frameworks & Libraries: React, Vue.js, Node.js, Flask, Bootstrap, Electron, jQuery, NumPy, matplotlib

Development Practices: Agile Methodologies, Responsive Design, API Integration, User-Centered Design