Aamir Irfan

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TECHNICAL SKILLS

Programming: C | C++ | Python | Java | VHDL | RISC-V | ARM | HTML | CSS | SQL | MATLAB

Tools: Visual Studio Code | Git | Docker | Xilinx Vivado | SQL Server Management Studio | Linux | Microsoft Office

WORK EXPERIENCE

Reena Group

Full-Stack Engineer — Co-op   *May 2023 - Aug 2023*

- Developed and implemented a comprehensive inventory tracking system using Python, SQL, HTML, CSS, and JavaScript for a team of 10 employees, ensuring all design specifications were met and resulting in increased organization in the production process.
- Utilized agile methodology to efficiently collaborate with cross-functional teams on the development of full-stack web applications, resulting in a 50% increase in productivity for the inventory tracking project.

eSentire Inc.

Junior Systems Administrator — Co-op   *Jan 2023 - Apr 2023*

- Implemented system updates and patches for both Windows and Mac operating systems, leading to a 90% decrease in system downtime and ensuring uninterrupted service for over 100 end users.
- Used a ticketing system to triage tickets and updated it regularly for all end users in the company, leading to increase organization and efficiency in the IT team.

PROJECT EXPERIENCE

Reena Group

Inventory Management Application

- Developed and implemented a full-stack web application utilizing Python with Flask as the web framework, creating multiple endpoints for user interaction. This resulted in a functional website with user authentication and privilege checks, improving user experience and security.
- Crafted each webpage using HTML, CSS, and JavaScript to design dynamic content that effectively communicates the purpose of the product. This approach led to a visually appealing website that engages users and enhances usability.
- Established a secure database using SQL Server Express to store critical data for the web application, ensuring compliance with data integrity laws. This implementation allowed for efficient data management through Microsoft SQL Server Manager, providing administrators with necessary privileges for handling sensitive information.

University of Guelph

Molecule Visualization Application

- Utilized C and Python to develop a backend program that parsed chemical compounds from molecular data and stored the information in a SQL database using the SQLite library, resulting in a streamlined process of creating molecules based on SDF files and establishing structural connections within the database.
- Designed the front-end using HTML and CSS and used HTTP API in Python to handle requests for chemical data to render portable 3D visualization of complex molecules in SVG format.
- Executed a comprehensive software development life cycle by meticulously understanding system requirements, designing the architecture, coding functionalities, integrating components, and thoroughly testing the system to ensure it met all specifications.

EDUCATION

University of Guelph   **Guelph, ON**

Bachelor of Engineering, Computer Engineering