Aamir Irfan

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TECHNICAL SKILLS

Languages: Python, C, C++, Java, SQL, JavaScript, HTML, CSS, VHDL
Assembly Languages: RISC-V , ARM, MIPS
Frameworks: Flask
Developer Tools: Git, Visual Studio Code (VS Code), Docker, SQL Server Management Studio, Xilinx Vivado, FPGA

EXPERIENCE

Full-Stack Engineer (Co-op)   May 2023 – August 2023
Reena Enterprises Limited (Total Health Centre)   *Mississauga, ON*
- Developed a full-stack inventory tracking web application using Python, Flask, SQL, JavaScript, HTML, and CSS, automating order updates and eliminating 2+ hours of manual counting per day for 20+ employees, resulting in continuous, error-free tracking.
- Implemented all backend features in Python using object-oriented programming principles, including data validation, user authentication, and data processing, leveraging GitHub for version control and code reviews to improve system reliability and maintain high-quality, error-resistant code.
- Configured and managed on SQL Server Express database with SQL Server Management Studio (SSMS), executing SQL queries to store, update, and remove data, ensuring secure, recoverable, and reliable access for the IT team.

Junior Systems Administrator (Co-op)   January 2023 – April 2023
eSentire Inc.   *Waterloo, ON*
- Triaged and resolved IT support requests using a ticketing system, troubleshooting issues across multiple operating systems, improving response time and overall IT team efficiency.
- Prepared 250 legacy laptops for buyback, ensuring data removal, system upgrades, and accurate Excel tracking, streamline IT asset management and recovering value from older equipment.

PROJECTS

Inventory Management App | *Python, Flask, SQL, JavaScript, HTML, CSS*   June 2023 – August 2023
- Applied Agile Software Development Life Cycle (SDLC) practices by regularly meeting with the clients to refine requirements and deliver iterative updates, delivering a secure full-stack web application built with Python and Flask. Incorporated robust error reporting and a clear user interface, enabling the IT team to resolve issues efficiently and fully meeting client expectations.
- Designed and Implemented a responsive front-end with HTML, CSS, and JavaScript, delivering an intuitive user experience across desktop and mobile that streamlined daily workflows and improved overall operational efficiency.
- Established a secure SQL Server Express database for critical application data, ensuring integrity and compliance, while enabling efficient administrative via Microsoft SQL Server Management Studio (SSMS) with controlled access for sensitive information.

Molecule Visualization App | *C, Python, SQL, JavaScript, HTML, CSS*   January 2023 – April 2023
- 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 Waterfall Software Development Life Cycle by meticulously understanding the system requirements, designing the architecture, coding functionalities, integrating components, and thoroughly testing the system to ensure it met all specifications.

CERTIFICATIONS

Introduction to Cybersecurity   June 2025
WatSPEED, University of Waterloo

EDUCATION

University of Guelph   Guelph, ON
Bachelor of Engineering in Computer Engineering   *September 2020 – April 2025*