Syed Saheer Multani

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Summary of Qualifications

- Dedicated Engineering student with a strong ethical foundation, excellent time management skills, and the ability to adapt quickly to new challenges.
- Proven track record of solving complex problems with practical, effective solutions.
- Committed to continuous learning and leveraging skills to thrive in diverse and dynamic environments.

Technical Skills

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, VHDL, Verilog, MATLAB, x86 Assembly, XML, LaTeX
Operating Systems: Windows, Unix
Frameworks: Express.js, JavaFX
Tools: GitHub, FPGA, VS Code, Visual Studio, Quartus II, Apache Netbeans, CodeWarrior, MySQL, Two-Legged OAuth, SSH, Smartsheet
Libraries: Tkinter, Python Imaging Library (PIL), Axios, JQuery, Select2

Education

Bachelor of Engineering: Computer Engineering - Software Engineering Option Toronto, ON
Toronto Metropolitan University (Formerly Ryerson University) *Exp. 2027*

- **Relevant Course Work**: Engineering Algorithms and Data Structures, Digital Systems, Database Systems, Object Oriented Eng Analysis and Design, Software Systems, Electronic Circuits, Microprocessor Systems, Signals and Systems

Experience

BIM 360 Software Developer May 2024 – August 2024
Loblaw Companies Limited *Brampton, ON*

- Developed a full-stack integration using Node.js and Express.js for Autodesk BIM 360, enabling seamless addition of up to 425+ users to a project with a frontend with HTML/CSS
- Developed an additional full-stack integration for Autodesk BIM 360, enabling seamless addition of a singular user to 3500+ projects in BIM 360 through API calls
- Used Smartsheet APIs to create an application that can perform tasks such as updating/moving rows and columns, etc.
- Developed tools to automate workflows and streamline Smartsheet formulas and processes

Personal/Academic Projects

Portfolio Website | *JavaScript, Python, HTML, CSS, GitHub Pages* June 2024 – Present

- Developed a website using HTML and JavaScript and used CSS to style it
- Used for displaying experience through the workplace as well as projects
- Implemented the game "2048" into the website using Python
- Pushed to GitHub chronically and used GitHub Pages hosting

Online Retail Banking System | *Java, JavaFX, MySQL* March 2024 – Present

- Developed a retail banking system with a GUI using Java, JavaFX, and MySQL Databases
- Used Object Oriented and Software Principles to implement techniques such as the state design pattern, rep invariants, abstraction, etc.
- Developed and managed separate login authentication systems for two distinct user bases: employees/managers and customers
- Implemented the customer actions through abstraction ensuring only necessary information was available
- Customers have access to deposit, withdraw funds and more while employees have elevated permissions to add/remove accounts, etc.

General-Purpose Processor | *VHDL, FPGA, Quartus II* November 2023 – December 2023

- Designed an Arithmetic and Logic Unit in a VHDL environment and implemented it on an FPGA Board
- Utilized Quartus II to build block diagrams and utilized VHDL to program components such as the ALU, Latches, etc.
- Used a 4x16 Decoder to interpret the instructions and set the tasks into motion