Yousif Zito

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Education

Bachelor of Technology, Software Engineering Technology (Co-op)   **Expected Sept 2025**

McMaster University, Hamilton, ON

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Computer Security, Parallel Programming, Software Requirements and Specification, Software Architecture

Advanced Diploma, Computer Engineering Technology with Honours   **Sept 2019 – Aug 2022**

Seneca Polytechnic, Toronto, ON

Relevant Coursework: Advanced C Programming, Obj. Oriented C++ Programming, Event Driven Programming, Advanced Programming Concepts in C#, Engineering Codes and Practice, Engineer Technology and Design

Cumulative GPA: 3.60/4.00

President's Honour List: Fall 2020, Summer 2021, Summer 2022, for achieving a term GPA of 4.0/4.0.

Projects

ExpenseAnalyzer   **Nov 2024**

McMaster University, Software Architecture - GitHub | Demo

- Built a cloud-based expense management tool using Python and Flask with a modular architecture.
- Used design patterns including Factory, Singleton, Observer, and Multiton for efficient system design.
- Integrated SQLAlchemy for ORM, using lazy loading for efficient queries.
- Implemented user authentication, budgeting, expense tracking, and data visualization.
- Enabled REST API endpoints for currency conversion and budget analysis.
- Technologies: Python, Flask, SQLAlchemy, JavaScript, HTML/CSS, RESTful APIs.

Full-Feature Flask Blog   **Aug - Nov 2023**

Personal Project - GitHub | Demo

- Created a feature-rich web blog application with Flask and Python.
- Focused on modularity and user security to ensure a scalable and secure user experience.
- Utilized Flask, templates, and blueprints for organized code structure.
- Integrated Flask-Bcrypt for secure password hashing and user authentication.
- Implemented user authentication and account management, including registration, login, password resetting, and profile picture upload features.
- Enabled CRUD operations for blog posts to facilitate content management.

Online Shop Using C# .NET   **Nov - Dec 2021**

Seneca Polytechnic, Advanced Programming Concepts Using C# - GitHub

- Designed and developed a scalable online shopping solution using C# .NET, adhering to OOP principles.
- Created a thread-safe console-based server with user authentication and exception handling capabilities.
- Employed multiple protocol standards for managing user connections, product inventory, and order processing.
- Developed a fully functional, thread-safe GUI using Windows Forms, integrating a login form and shopping interface.
- Applied concepts such as concurrent collections, multithreading, interfaces, classes, and the Single Responsibility Principle (SRP) to enhance functionality and maintain code integrity.

Skills

Programming: Python, C# .NET, C/C++

Web Technologies: HTML, CSS

Development Tools: GitHub, Git, Unix, Visual Studio, VSCode

Databases: SQLALchemy, MS SQL Server

Operating Systems: Windows, Mac OS, Linux (Ubuntu, Debian), OpenVMS

Hardware Platforms: Raspberry Pi, ARM MBED Microcontroller

Languages: Fluent in English, Chaldean, and Arabic