

Yousif Zito

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Education

Bachelor of Technology, Software Engineering Technology (Co-op)

Expected 2026

McMaster University, Hamilton, ON

(pending co-op placement)

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

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, Engineering Technology and Design, Cisco Internetworking

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 & Frameworks: **HTML**, **CSS**, **Flask** (**Flask-Bcrypt**, **Flask-Blueprints**, **Flask Extensions**)

Development Tools: **GitHub**, **Git**, **Unix**, **Visual Studio**, **VSCoDe**

Databases: **SQLAlchemy**, **MS SQL Server**, **MS Azure SQL Database**

Libraries: **Matplotlib** (for data visualization)

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

Hardware Platforms: **Raspberry Pi**, **ARM MBED Microcontroller** (**Prototyping**, **IoT Projects**)

Languages: Fluent in **English**, **Chaldean**, and **Arabic**