

YOUSSEF ELSHAER

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EDUCATION

University Of Guelph

Bachelor of Computing (Co-op), Major in Computer Science

Guelph, Ontario

Sep 2025 – Apr 2030

SKILLS

Programing Languages: C, Python, C++, HTML, CSS, Javascript, SQL

Development Tools: Git, Github, Linux, VS code, JetBrains, FastAPI, SQLAlchemy, pytest, REST API's, OpenCV, YOLO

PROJECTS

Sentinel | Python, FastAPI, SQLAlchemy, REST APIs, SQL

- Developed a Python-based cybersecurity platform to analyze IP addresses, domains, URLs, file hashes, and CVEs using multiple threat-intelligence APIs.
- Integrated VirusTotal, AbuseIPDB, URLhaus, and CISA vulnerability data through REST APIs and normalized responses into a unified analysis system.
- Designed a weighted risk-scoring engine that correlates threat indicators and classifies results as Low, Medium, High, or Critical.
- Built REST API endpoints with FastAPI and implemented persistent investigation history using SQLAlchemy and a relational database.
- Implemented input validation, API error handling, caching, rate-limit handling, and automated testing with pytest.

Computer Vision Security Monitoring System | Python, OpenCV, YOLO

- Developing a real-time security monitoring system using **OpenCV and YOLO** for person, motion, and object detection.
- Implementing **custom detection zones, time-based rules, and threat scoring** to identify suspicious activity.
- Building automated **alerts and CSV/JSON event logging** with API integration for security notifications.
- Designing a **multi-threaded processing pipeline** to handle video capture, object detection, threat analysis, and alert generation efficiently in real time.

Healthify | Javascript HTML CSS

Present

- Developed a web-based application to log daily habits and health-related information.
- Implemented interactive features using JavaScript to handle user input and dynamic updates.
- Focused on creating a simple, intuitive, and user-friendly interface.
- Ensured responsiveness across different screen sizes using modern CSS techniques

EXPERIENCE

Summer Camp counselor

YMCA

Jun 2025 – Present

Mississauga, Ontario

- Plan and lead structured programs for children in sports, arts, and science
- Supervise daily activities to maintain a safe, positive, and inclusive environment
- Collaborate with fellow counselors to design and deliver engaging, age-appropriate programming

Sales Agent

InnovaTech Solutions

Sep 2024 – Oct 2025

Mississauga, Ontario

- Assisted in selling SEO services by explaining basic online marketing benefits to clients
- Communicated with potential customers to understand their business needs and goals
- Supported the sales team with outreach, follow-ups, and tracking client interest