Rayan Khalil

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EDUCATION

Ontario Tech University — Oshawa, ON
Bachelor of Engineering, Software Engineering; GPA: 3.9/4.3 — *Sep. 2023 – May 2028*
- **Awards:** President's List, Entrance Scholarship Award and In-course Scholarships
- **Relevant Courses:** Object Oriented Programming, Data Structures, Web Programming, Foundations of IT, Digital Systems, Principles/Requirements of Software and Electric Circuits.

EXPERIENCE

Governance Administration — May - Aug. 2025
Ontario Tech University, Office of the Secretary and General Counsel — *Remote*
- Supported university governance operations by contributing to board portal development and assisting with website updates using HTML, CSS, and JavaScript.
- Performed high-integrity administrative tasks and implemented accessible design standards to improve user experience and ensure compliance.

Software Developer — Dec. 2023 - Current
Ontario Tech Racing (FSAE - Formula Student) — *Oshawa, ON*
- Developing UI and server cluster software with React and FastAPI to streamline access to computational fluid dynamics simulations, improving engineering analysis efficiency.
- Redesigned and implemented a new website using JavaScript, HTML, and CSS, improving team visibility and navigation for sponsors and members.
- Gained hands-on experience working with STM32 microcontrollers, contributing to the development and optimization of the vehicle's electronic systems.

Software Development Trainee — March 2025
Wouessi (Digital Solutions Web, Apps & Marketing) — *Remote*
- Contributed to the development of a full-stack Employee Management System during a 30-hour sprint; built management features including role-based access and document upload using MERN stack.

PROJECTS

MedSafe AI - Hospital Violence Detection System | *Python, TensorFlow, OpenCV* — Feb. 2025
- Integrated and deployed a pre-trained deep learning model using TensorFlow and OpenCV to classify violent behavior in real-time from live webcam footage, achieving over 85% detection accuracy on a custom-labeled dataset of 2000+ hours.
- Built a Flask-based web dashboard to stream live detection feeds and alert logs, improving response time for hospital security teams through instant visual/audio cues.

XP Reviews - Game Review Website | *HTML, CSS, MySQL, JavaScript, PHP* — Nov. 2024
- Implemented MySQL databases to securely store and manage more than 30 game records and store user-submitted reviews.
- Utilized GitHub for version control, enabling collaboration and maintaining an organized codebase.

Scissor Lift - Engineering Design | *Solidworks, Google Suites* — May 2024
- Led a team of 8 students to design and document a fully-functional scissor lift; enhanced leadership and technical communication.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, SQL, JavaScript, HTML/CSS, PHP
Frameworks: React, FastAPI, Flask
Libraries: Matplotlib, GSAP, PyQt
Databases: MySQL, PostgreSQL, MongoDB
Tools/Platforms : STM32, Git, Github, JetBrains, VS Code