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

UI/UX Developer — Sept. 2025 – Aug. 2026
BMO (Bank of Montreal), Technology Research & Innovation — *Toronto, ON*
- Developing an internal innovation platform by building and styling responsive UI components using HTML, CSS, JavaScript, and SharePoint, supporting idea submission across multiple lines of business.
- Designing and iterating on user-facing workflows through collaboration with project managers and stakeholders, implementing improvements via Power Apps and custom web components to enhance usability and reduce friction for internal users.
- Contributing to emerging technology research through observation papers and evaluating new tools to enhance enterprise collaboration and efficiency.

Governance Administration — May 2025 - Aug. 2025
Ontario Tech University, Office of the Secretary and General Counsel — *Remote*
- Supported governance operations by enhancing the university board portal and public-facing websites, ensuring accessibility and compliance with AODA standards.
- Performed high-integrity administrative tasks and implemented accessible design standards to improve user experience and ensure compliance.

Software Developer — Dec. 2023 - Aug. 2025
Ontario Tech Racing, FSAE (Formula Student) — *Oshawa, ON*
- Developed 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.

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.

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 : Power Apps, Power Automate, Power BI, STM32, Git, GitHub, JetBrains IDEs, VS Code, Jira