

Marwan Yousef

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EDUCATION

University of Toronto

Toronto

Honours in Bachelors of Science (H.Bsc.), Computer Science + PEY Co-op

2026

- Dean's List Scholar (2023)

Relevant Coursework: Data Structures & Algorithms, Software Tools & Systems Programming, Software Design & Development in Java, Object-Oriented Programming, Computer Architecture.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, Assembly, JavaScript, HTML/CSS, CUDA

Tools: Amazon Web Services, Git, Kubernetes, Postman, Stripe API, Azure, Docker, Google Cloud Platform

Frameworks: Next.js, Node.js, Flask, Django, Angular, Express.js

Libraries: React, Pandas, Scikit-learn, NumPy, Streamlit, Matplotlib, TensorFlow, JQuery, OpenCV

EXPERIENCE

Peaches Solutions

May 2023 – August 2023

Software Engineering Intern

- Designed and built a responsive React website, providing seamless user experience for **500+** monthly visitors.
- Implemented Flask backend for website, enabling secure storage of **10K+** users' data.
- Created SQL-integrated authentication feature for website using **JS** and **SQL**, providing secure access for users.

PROJECTS

InsiderUnlocked | Python, SQL, Pandas, React, Django, Matplotlib

- Developed a web app to preview senators' financial investments gaining **5000+** views using **React** & **Django**.
- Developed ETL pipeline for senators' investment data using **Python**, and **SQL** producing **700k** cleaned rows.
- Analyzed US senators' investment data, identifying top stocks & large portfolios using **Pandas**, and **Matplotlib**.
- Created a data pipeline with **Python**, **SQL**, and a **custom scheduler** resulting in 10-day data refresh.

SitUp! (UofT DeerHacks Winner) | TensorFlow, Movenet, Sklearn, Flask

- Built a platform that classifies 7 key points that affect a person's posture using **TensorFlow**, and **Movenet**.
- Developed and trained an artificial neural network to determine bad posture using **Sklearn**, and **Tensorflow**.
- Conducted multiple iterations of model training and hyperparameter tuning, resulting in **9%** model improvement.
- Implemented a real-time detection system to notify users of bad posture using **Flask**, improving user awareness.

Hands Free (RUHacks Winner) | Python, OpenCV, React, Django, Mediapipe

- HandsFree is a desktop app that listens to users, and looks for gestures to complete daily digital actions.
- Built a classification system for gestures in correlation with digital actions using **OpenCV**, **Mediapipe**, **Python**.
- Developed a software licensing system using **dynamic QR codes** to ensure app security using **Auth0**.
- Created an authentication system and web-app to support software installation using **React** and **Django**.

ChatWatch | Python, Pandas, Django, SQLite

- ChatWatch is a web app that can return statistics regarding any past stream from Reddit, Twitch and YouTube.
- Implemented server-side caching, reducing request runtime by up to **96%** with **SQLite**, and **Django**.
- Built an **NLP** pipeline for chat message analytics with **Python**, & **Pandas** for user insights.

AWARDS

PicoCTF (Carnegie Mellon University) 2022 - **2nd** in Canada out of 350+ teams, 15th in the world out of 7700+ teams.

PicoCTF (Carnegie Mellon University) 2021 - **6th** in Canada out of 500+ teams, 9th in the world out of 8000+ teams.

United States of America Computing Olympiad 2021-2022 - Plat division (**Top 1%**)