George Kassir

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Education

York University Toronto, ON
Bachelor of Software Engineering (BSE) Sept 2025 – Present

Experience

Coding Content Creator Toronto, ON
TikTok, YouTube, How2Codes July 2022 – Present

- Curated a developer community of 40,000 followers by providing instructional coding and theory videos.
- Developed Tutorials on languages such as Object Oriented Programming in Java, and basics of Python and JavaScript.
- Amassed around 25 Million views in total across platforms.

Projects

Vision Waste AI | ***Python, OpenCV, Raspberry Pi Pico, LLAVA API*** Feb 2026 – April 2026

- Engineered an automated waste classification system using Computer Vision and Edge Computing to categorize recycling, compost, and landfill.
- Integrated multimodal LLMs (LLAVA/Moondream) to achieve high accuracy object detection for complex material types.
- Developed hardware-software interfaces on a Raspberry Pi Pico 2 W, optimizing resource usage for real-time inference on low power devices.
- Developed a custom data pipeline using Base64 encoding and JSON serialization to transmit image data from OpenCV to a local inference server.

SaveMyRims | ***PyTorch, YOLO, TigerDB, GCloud, Docker, BaseTen*** Sept 18 - Sept 20 2026

- Built a crowdsourced pothole detection and mapping app at Hack the North, using phone IMU data for real time movement detection combined with a trained YOLO model for camera detection to surface Waze style pothole warnings on a live map.
- Trained a YOLO model on BaseTen learning on a public pothole dataset from roboflow and containerized the app for deployment on Google Cloud with Docker.
- Won MLH's Best Use of TigerDB award and was a finalist for Echo's Best Use of Their Native App award among 1,000+ hackers at Canada's largest hackathon.

Hackathon Winner: Excalibur | ***Mediapipe, OpenCV, IMU Sensor Ring*** July 22 – July 26 2026

- Engineered a real-time computer vision pipeline with OpenCV and MediaPipe to extract body keypoints and compute joint angles for automated exercise form analysis.
- Fused pose-estimation data with IMU smart ring and EMG sensor readings to build a multimodal AI fitness coaching system.
- Won 1st place in theme and 3rd place overall among 800+ participants from 170+ regions at AdventureX 2026, China's largest hackathon.

Technical Skills

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, RISC-V Assembly
Frameworks: Mediapipe, FastAPI, Manim
Libraries: NumPy, Pandas, Scikit-Learn, PyTorch, OpenCV, Matplotlib, Ultralytics
Developer Tools: Git, Docker, Google Cloud, Baseten, Bash