Tareq Kurdiah

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EDUCATION

Western University — Honours Specialization in Computer Science Expected 2028
London, ON

Relevant Coursework: Data Structures & Algorithms, Python, Java, C Programming, ARM Assembly, Unix/Linux, Computer Logic
Awards: Dean's Honours List (2024-2025)

PROJECTS

Wash&WaxWorks — Full-Stack Booking Application   **React, Node.js, MongoDB, Tailwind**

- Built a full-stack booking platform for a car detailing business using React and Node.js.
- Developed REST APIs with MongoDB to manage bookings and customer data.
- Improved booking conversion rate by **85%** through a streamlined booking flow.

ScratchSCN — AI Vehicle Damage Detection   **Python, OpenCV, Machine Learning**

- Built components of an AI-powered system to detect vehicle scratches, dents, and paint damage.
- Designed OpenCV-based image comparison pipelines to surface candidate defect regions.
- Benchmarked SIFT vs ORB feature-matching methods for aligning baseline and damaged vehicle images.
- Manually segmented and annotated **300** damaged vehicle images, organizing labels by damage type to support instance segmentation and model training.
- Trained a YOLOv8 object detection model on a limited dataset using Roboflow, achieving **70%** mAP in vehicle damage detection.

ACTIVITIES

Western Cyber Society Club — AI Developer 2025 – Present
- Collaborated with peers on applied AI projects focused on real-world problem solving.
- Contributed to team-based AI development through regular design discussions, model evaluation, and iterative improvement.
- Selected as part of a collaborative team project to present ScratchSCN at **Toronto Tech Expo 2026**, showcasing an AI-based solution addressing real-world business challenges.

WORK EXPERIENCE

Productions Crew Sep 2024 – Present
Western University, London, ON
- Delivered end-to-end event production by operating audio-visual systems for large-scale student events.
- Coordinated under tight timelines to ensure smooth execution for events serving over **42,000** students.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript
Frontend: React, CSS, Tailwind
Backend: Node.js, Express.js
Databases: MongoDB
AI/ML: Computer Vision, OpenCV, YOLOV8
Tools: Git, REST APIs, Linux

CERTIFICATIONS

- **Google AI Essentials** — Google
- **Django Application Development with SQL and Databases** — IBM
- **Developing Front-End Apps with React** — IBM
- **Business Analysis Fundamentals** — Microsoft
- **Mathematics for Machine Learning: Linear Algebra** — Imperial College London