

Mohammed Owda

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EDUCATION

BESc, Software Engineering | Western University, London, ON

Sept 2023 – Apr 2027

CGPA: 85% | Dean's Honour List (2024–2025) | RBC Design Thinking Program (2025)

Awards: Chorley & Bisset Award; MacKay-Lassonde Award

Coursework: Software Design, Software Construction, Algorithms & Data Structures, Database Management Systems, Computer Networks, Web Technologies, Applied Probability & Statistics

RESEARCH EXPERIENCE

Undergraduate Research Assistant | Intelligent/Autonomous Systems Lab, Western University

May 2025 – Present

Python, YOLOv26, OpenCV, ROS 2, FastAPI, React, PostgreSQL

- Built a multi-view AI dashboard with YOLOv26 overlays, ROS 2 data pipelines, and structured event logging across live camera feeds.
- Engineered a ROS 2 multi-camera pipeline for modular detection publishing, synchronized overlays, and reproducible data collection.

SELECTED PROJECTS

TrafficIQ — AI Traffic Analytics Platform | Research Collaboration

Python, YOLOv26, OpenCV, FastAPI, React, PostgreSQL

- Developing a computer vision platform that converts traffic video into turning-movement counts and speed studies for client stakeholders.
- Built a FastAPI backend and React dashboard, integrating YOLOv26 detection and tracking across varied deployment conditions.

QCare — ER Virtual Waiting Room | 1st Place — MSA Hackathon

React, Flask, SQLAlchemy, OpenAI, PostgreSQL

- Built an AI-assisted triage platform with a real-time clinician dashboard, unit-tested triage logic, and concurrent session-state handling.
- Implemented backend triage flows, queue updates, and clinician-facing views for responsive multi-user use.

Jordanian Culture Club Website | Live Production

Next.js, React, Tailwind CSS, Vercel | Live: jordaniancultureclub.com

- Sole developer of a live production site with event listings, sponsor directory, executive profiles, photo gallery, and membership flow.
- Deployed and maintained the site on Vercel with responsive layouts and streamlined club content flows.

Elmadhoun Family Tree | Live Production

Next.js, React, PostgreSQL, REST API | Live: elmadhoun.ca

- Built a bilingual family-tree platform with authentication, branch navigation, keyword search, and hierarchical rendering across 1,300+ records.
- Designed recursive tree rendering and search workflows for scalable navigation across multilingual records.

LEADERSHIP & SERVICE

VP Technical Operations | Western Engineering Competition (WEC)

Mar 2025 – Present

- Delivered digital infrastructure (website, LMS) for 650+ registrants; authored technical handoff documentation and training for successor VPs.

VP of Projects | Engineers Without Borders (Western Chapter)

Sept 2023 – Present

- Led STEM workshops for 200+ youth; co-organized a Sustainability Hackathon with 100+ participants.

Sustainability Director of Outreach | Undergraduate Engineering Society (UES)

Sept 2024 – Present

- Organized sustainability hackathons, workshops, and case competitions for engineering students.

Operations Manager | Western Foot Patrol

Sept 2023 – Present

- Coordinated volunteer scheduling and introduced shift-reporting automation to streamline campus safety logistics.

TECHNICAL SKILLS

Languages: Python, TypeScript/JavaScript, C/C++, Java, SQL, Bash

AI / Robotics: YOLOv26, OpenCV, ROS 2 (rclpy), TensorRT/NCNN

Frameworks & Tools: FastAPI, Flask, React, Next.js, Node.js, PostgreSQL, Git, Docker, Linux, AWS, Pytest, Vercel