

Oladele Magbadelo

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EDUCATION

- Bachelor of Science in Computer Science, Minor in Data Science** Sep. 2024 – May 2028
Western University London, ON
– Recipient of the Carmeta Thelma Hodges Scholarship Award (\$6000 CAD) and Western Admission Scholarship (\$2500 CAD)
- High School Diploma** Aug. 2023 – May 2024
Gems American Academy | High Honours, Male Athlete of the Year (Basketball MVP) Doha, Qatar

EXPERIENCE

- AI & Software Developer Intern** May 2026 – Present
PurelyBiome Remote
– Engineered multi-task Convolutional Neural Networks (CNNs) with **Python** and **PyTorch/TensorFlow**, leveraging specialized datasets (ACNE04, SCIN) to train classification models that detect and grade skin conditions for the Kit Activation pipeline.
– Developed the end-to-end customer reporting interface using **Next.js** and **Supabase**, building dynamic visualizations to translate complex biological JSON data into actionable microbiome insights.
- Facilities Asset Management Intern** Jun. 2022 – Aug. 2022
RCCG HOP Calgary, AB
– Digitized and inputted detailed data on up to 50 key church assets into the Upkeep CMMS to support accurate maintenance tracking and recordkeeping.
– Digitalized and organized church maintenance records, including plumbing, electrical, and audiovisual system maps, using **Microsoft Office Suite** (Word, Excel, and OneDrive) for streamlined access and documentation.
- Projects Director** Sep. 2025 – Present
Western Founders Network London, ON
– Collaborated on developing full stack applications using technologies such as Node, **React**, Express, **Supabase**, and GitHub, applying real-world practices such as API Integration, version control, and feature deployment.
- Marketing Director** Sep. 2025 – Present
Western Engineering AutoPilot London, ON
– Worked in WEAP's Communications Team to ensure a clear, consistent, and engaging brand voice across all digital platforms while spearheading design and social outreach initiatives for effective promotion.

PROJECTS

- Distributed URL Shortener** | [Devpost](#) | [GitHub](#) | *Flask, Docker, Nginx, Neon* Apr. 2026
– Architected a highly available web application on DigitalOcean, containerizing an Nginx reverse proxy, Redis cache, and Python backend with Docker to ensure clean separation of concerns.
– Optimized system throughput to support 500 concurrent users by tuning Gunicorn thread workers and implementing PgBouncer connection pooling for PostgreSQL, sustaining 520+ requests per second with a 0% error rate.
- UofTHacks: Flowlytics** | [Devpost](#) | [GitHub](#) | *Python, Mesa, TypeScript, React* Jan. 2026
– Conducted data analysis using Python to simulate customer traffic and generate heat maps, successfully identifying densely populated areas and store "dead zones".
- Mustang Wrapped** | [Video](#) | [GitHub](#) | *Spotify API, Supabase, React, SQL* Oct. 2025 - Present
– Worked in a team of 4 to develop a full stack data driven social platform web app by integrating the **Spotify Web API** with a **Supabase** backend to normalize and store real-time user listening history.
– Developed comparative analytics by writing complex SQL queries to clean, aggregate, and normalize raw real-time user data from the Spotify API. Uncovered community-level music trends and insights, allowing users to visualize and compare their tastes.

TECHNICAL SKILLS

Languages and Frameworks: Python, **JavaScript**, **PostgreSQL**, Java, HTML/CSS, R, C, React, **Next.js**, Express.js, Flask
Developer Tools: Git, GitHub, **Docker**, **Nginx**, **Supabase**, VS Code, Figma, Notion
Libraries: **PyTorch**, **TensorFlow**, Keras, NumPy, Matplotlib, Seaborn
Other Skills: Computer Vision, Arabic, Event Management, Sound Engineering, **Microsoft Office Suite**