

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)

EXPERIENCE

AI & Software Developer Intern May 2026 – Present
PurelyBiome *Remote*
– Built and deployed a computer vision model grading acne severity from facial images, fine tuning an EfficientNet CNN in PyTorch/TensorFlow with a two phase transfer learning strategy to reach 95.5% validation accuracy and 100% accuracy on a held-out set of 50 real customer images.
– Engineered the end to end reporting interface in Next.js and Supabase, building data pipelines that normalize complex biological JSON into structured, queryable microbiome insights surfaced to users.

Software Developer Jun. 2026 – Present
3D Western *London, ON*
– Built the frontend data and API layer for a 3D printing lab management dashboard (Next.js, TypeScript, React) launching to production in August 2026, delivering typed contracts and API client wrappers across booking and job tracking features.
– Implemented an equipment booking service spanning 9 REST endpoints with server-side conflict and capacity handling, validated against a Mock Service Worker layer with unit and end-to-end tests.

Vice President of Projects Sep. 2025 – Present
Western Founders Network *London, ON*
– Promoted to VP of Projects (Apr. 2026); design and run a technical curriculum (Git/GitHub, JavaScript, architecture) that takes student builders from setup to a working full stack prototype.
– Coordinate a team of directors through a sprint based build cycle toward Demo Day, mentoring on version control, API integration, and shipping working software.

PROJECTS

The Vault — AI Financial Dashboard | *Python, FastAPI, Plaid, PostgreSQL* July 2026 – Present
– Built a real time financial data pipeline ingesting live bank transactions via Plaid, using cursor based sync and idempotent writes to guarantee no duplicate or lost records across accounts.
– Designed a Monte Carlo forecasting engine that models spending volatility from real transaction history to produce probabilistic savings projections with confidence ranges rather than single-point estimates.
– Architected secure multi user infrastructure (encrypted token storage, row level isolation) and led a 3 person team from design through deployment.

Distributed URL Shortener | *Devpost* | *GitHub* | *Flask, Docker, Nginx, Redis* Apr. 2026
– Architected a highly available web app on DigitalOcean, containerizing an Nginx reverse proxy, Redis cache, and Python backend with Docker for clean separation of concerns.
– Scaled to 500 concurrent users at 520+ requests/second with 0% error rate by tuning Gunicorn workers and PgBouncer connection pooling for PostgreSQL.

Mustang Wrapped | *Video* | *GitHub* | *Spotify API, Supabase, React, SQL* Oct. 2025 – April 2026
– Developed a full stack social analytics web application by integrating the Spotify Web API with a React frontend and Supabase backend, securely normalizing and storing real time user listening history.
– Uncovered community level trends with complex SQL to clean, aggregate, and normalize raw JSON, processing 100+ top tracks across club members into personalized comparative dashboards.

TECHNICAL SKILLS

Languages: Python, Java, C, JavaScript, TypeScript, SQL (PostgreSQL), R, HTML/CSS
AI/ML: PyTorch, TensorFlow, Keras, NumPy, Pandas, Computer Vision, Transfer Learning, Monte Carlo Methods
Frameworks: React, Next.js, FastAPI, Express.js, Flask, Tailwind CSS
Developer Tools: Git, GitHub, GitHub Actions (CI/CD), Docker, Nginx, Redis, REST APIs, Supabase, MSW, GitHub Copilot, Claude Code
Concepts: Data Structures & Algorithms, Real Time Data Pipelines, API Integration, Distributed Systems