

Muyi Omorogbe

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EXPERIENCE

AI Solutions & Platform Engineer

May 2025 – Present

ENGR Solutions

Oakland, CA

- Built production-grade, AI-enabled data applications end-to-end, translating stakeholder requirements into functional data products validated with data models, system diagrams, and API integrations – including an e-commerce ticketing platform for the annual BESTEMM conference that drove 70+ sales and \$1,000+ in revenue.
- Developed an AI-powered quiz-generation platform on Azure OpenAI, leveraging AI-assisted development tools to deliver dynamic, adaptive assessments and cutting manual question-building time by 60%.
- Architected and optimized a MySQL database (schema design, indexing, query tuning) for quiz templates, user responses, and analytics, improving query response time by 50%.
- Built a Learning Management System (LMS) with SSO that scaled to 300 members.

Co-Founder & Fullstack Engineer

April 2023 – June 2025

uHyve Corp.

Toronto, ON

- Co-founded uHyve, a React-based SaaS marketplace, and led a 4-person team while driving core feature development in JavaScript, SQL, React, Redis, and MySQL on an MVC architecture.
- Established Git-based workflows, including branching strategy, pull requests, and peer code review, raising Jest test coverage to 40% and reducing production bugs by 50%.
- Built test plans, validation processes, and production monitoring that cut release regressions by 50%, enabling reliable, production-ready deploys.
- Delivered strategic business pitches that secured 10+ vendor partnerships and drove \$10,000+ in total platform revenue.

UI/UX Engineer

April 2024 – January 2025

Stubuddy (stubuddy.ca)

Kingston, ON

- Took a peer-to-peer tutoring platform from concept to live product, onboarding the first 5 tutors and 10 students within 8 weeks of release.
- Won the Audience Choice Award at the BFN x BCC pitch competition, securing \$5,000 in funding against 10 competing teams.

PROJECTS

Personal Spending Tracker | *Python, FastAPI, PostgreSQL, SQL, TypeScript, React, Plaid API*

2026 – Present

- Building a full-stack personal finance data pipeline that ingests bank transactions via the Plaid API into a FastAPI + PostgreSQL backend, with modular, config-driven Python for automation and maintainability.
- Engineered an idempotent, incremental sync pipeline and a rules-based categorization engine, using advanced SQL – including window functions (LAG) – for month-over-month spend analytics on large transaction datasets.
- Developing a React + TypeScript frontend with type-safe API contracts generated from the OpenAPI schema, filterable transaction tables, and a Recharts analytics dashboard.

Histomate (AI Quiz Generator) | *PHP, HTML, JavaScript, CSS, OpenAI API*

Sep 2025 – Jan 2026

- Designed and built an AI-powered quiz-generation plugin for the American Association of Anatomy using MySQL, Python, PHP, HTML, JavaScript, and CSS, evaluating and integrating a third-party AI API for fit and scalability.
- Implemented intelligent chapter-based quizzes and dynamic feedback modules leveraging OpenAI's API to generate, evaluate, and explain quiz responses in real time via asynchronous calls.

uHyve App | *React, Tailwind, JavaScript, CSS, HTML, Redis, MySQL, Git*

Dec 2024 – Feb 2025

- Developed a React-based web application connecting students to verified local service providers, integrating Redis and MySQL for secure, performant data storage, retrieval, and caching.
- Engineered scalable frontend features using React, Tailwind CSS, and Node.js within a cloud-enabled, Agile engineering team.

EDUCATION

Queen's University

Graduated

Bachelor of Applied Science in Computer Engineering

Kingston, ON

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, TypeScript, Java, PHP, C/C++, HTML/CSS

Data & Backend: PostgreSQL, MySQL, FastAPI, Redis, data pipelines, data modeling, query optimization

Frameworks: React, Node.js, WordPress, Docker

Developer Tools: Git, VS Code, Azure Data Studio, AWS, Jest, Cypress, Cursor

AI Tool Stack: Anthropic Claude (Opus, Claude Code), OpenAI GPT, Codex, Azure OpenAI