

Femi Odujinrin

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Education

University of Western Ontario (*Western University*) *Sept 2023 – Apr 2027*

B.E.Sc. in Software Engineering

- **3.8/4.0** — **ECE 4436A** - Networking: Principles, Protocols, and Architecture, **SE 3309A** - Database Management Systems, **SE 3351A** - Software Project and Process Management

Experience

Software Engineering Intern

San Francisco, CA

Voltus

June 2025 – Oct 2025

- Led the redevelopment of a lead-generation mapping platform from a prior internship, designing a robust Python FastAPI backend to enhance scalability and maintainability with automated testing.
- Engineered core modules using design patterns for address geocoding, automated square footage computation, and dynamic CSV batch processing, with data securely stored in AWS S3 with continuous integration.
- Boosted the Lead Gen team's location verification accuracy by 55% through asynchronous processing, optimized API calls, and workflow automation for performance management.

Lead Generation Intern (Software Developer)

San Francisco, CA

Voltus

June 2024 – Oct 2024

- Streamlined lead acquisition by managing databases, clearing dashboards, and responding to requests.
- Invented an AI tool designed for satellite building detection as well as square footage calculations.
- The developed tool optimized the previous client validation and opportunity creation methods by 76.4%.

Projects

Google Mapping Tool

[GitHub Repo](#) 

- Created a mapping tool to process addresses, enabling efficient building square footage calculations.
- Designed a CSV pipeline to batch-process locations and append computed square footage to output files.
- Optimized asynchronous API calls with concurrency to process up to 1000+ addresses simultaneously.
- **Tools Used:** HTML, CSS, JavaScript, Python, Geocoding, AWS S3, FastAPI, OverpassAPI

Stud.AI

[GitHub Repo](#) 

- Developed an app using LLMs and the Cohere API to turn user notes into personalized practice tests
- Designed MongoDB schemas to efficiently store and retrieve user learning data with query optimization.
- Integrated machine-learning models to personalize practice questions and track student improvement trends.
- **Tools Used:** React, MongoDB, Node.js, TailwindCSS, Machine Learning, Artificial Intelligence (AI)

Spotify Auto-Playlist Generator

[Devpost](#) 

- Utilized the Spotify Web API to dynamically create, update, and curate playlists from user mood live.
- **Tools Used:** Python, Java, APIs

Awards & Certifications

[IBM AI Developer Specialization](#)  — [IBM Building Generative AI-Powered Applications with Python](#)  — [IBM Developing AI Applications with Python and Flask](#)  — [IBM Python for Data Science, AI & Development](#)  — [RoboHacks2 First Overall Winner](#) 

Technologies

Languages & Frameworks: Python, C, C++, C#, Java, SQL, PostgreSQL, JavaScript, React, R, Ruby

Technologies: AWS, .NET, FastAPI, Flask, Git, OpenCV, GCP, NodeJS, NumPy, Pandas, OOP, Azure, Thor