

# Olaitan Adeniyi

Systems Engineer & Full-Stack Architect

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## PROFESSIONAL SUMMARY

Ranked **1st in Engineering Class** (First Class Honours). Specializes in designing high-availability distributed systems for Logistics and Data Intelligence. **Architected** the Peepalytics ETL infrastructure, achieving a **98% latency reduction** (2 hrs to <90s) via stream processing (Kafka/Airflow). Expert in translating complex business requirements into scalable cloud solutions (AWS) and mathematical optimization models (MIP).

## EDUCATION

### OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE

Nigeria

*Bachelor of Science in Engineering*

July 2025

Grade: First Class

### Meta

Coursera

*Backend Engineering Professional Certificate*

2023

### Udacity

Remote

*ALX-T Full Stack Developer Nanodegree Program*

2022

## PROFESSIONAL EXPERIENCE

### PEEPALYTICS AI, US

Remote

*Full Stack Software and Infrastructure Engineer (Lead)*

June 2024 - Present

- **Architected** high-performance API workflows using Django/FastAPI, serving complex data visualizations to Next.js frontends.
- **Engineered** the ETL infrastructure using Apache Airflow and Kafka, achieving a **60x reduction** in processing time and slashing memory overhead.
- **Directed** the technical roadmap for AI systems, deploying **RAG architectures** and Multi-Agent workflows (MCP) that reduced data retrieval latency by **98.7%**.
- **Optimized** cloud expenses by implementing usage-based tiering on AWS, reducing monthly deployment costs by **50%**.
- **Mentored** a team of engineers in distributed systems patterns, ensuring **99.9% reliability** across a polyglot database environment (Postgres, Neo4j).

### STEALTH NETWORK, WEB3

Remote

*Frontend Engineer*

Mar 2023 - Oct 2024

- **Architected** a reusable UI component library in React/TypeScript, reducing development time for new features by 30%.
- **Optimized** frontend asset loading strategies, improving First Contentful Paint (FCP) scores across the platform.

### STITCH TECHNOLOGIES

Remote

*Full stack Engineer*

Mar 2022 - Sept 2023

- **Designed** a high-traffic sweepstakes engine using Django, optimizing database queries to handle concurrent user spikes.
- **Implemented** secure Identity & Access Management (IAM) systems using Flask, ensuring compliance with data privacy audits.
- **Containerized** microservices using Docker and Kubernetes, enabling rapid CI/CD deployment cycles on AWS.

- **Developed** responsive consumer-facing interfaces using **React.js**, translating complex UX/UI designs into pixel-perfect, interactive web applications.
- **Engineered** modular, reusable frontend components that improved codebase scalability and reduced future development time.
- **Maintained** platform stability through rigorous debugging and version control (**Git**), ensuring seamless integration of new features into existing systems.

- **Mentored** student in C and Java, breaking down complex low-level concepts like memory management, pointers, and Object-Oriented Programming (OOP) to build strong computer science foundations.
- **Instructed** on Database Design and Architecture (MySQL), teaching the principles of schema normalization, SQL optimization, and relational data modeling to ensure efficient backend performance.
- **Delivered** full-stack development curriculum (Python, PHP), guiding learner from basic syntax to building functional web applications, emphasizing clean code practices and system integration.

## ENGINEERING INNOVATION & SOFTWARE SYSTEMS

- **Fleet Logistics Engine (EagleSight):** Developed a strategic enhancement for the **Tractor-on-the-Go** ecosystem, using Linear & Mixed-Integer Programming (MIP) to solve Vehicle Routing Problems (VRP) and minimize fuel costs. Integrated a Fluid Mechanics-based diagnostic model that correlates real-time location with telemetry data to predict engine breakdown and prevent failure during operation. Preview at [eaglesight.deniyei.link](https://eaglesight.deniyei.link)
- **AI Career Copilot (Enzo):** Architected a "Zero-Touch" career management platform that ingests real-time GitHub webhooks to automate resume and portfolio updates. Built an **Agentic RAG system** using **Gemini 2.5 Flash** to analyze commit history, utilizing semantic filtering to distinguish low-impact "noise" from high-value engineering achievements. Preview at [Enzo](#)
- **Civic Geospatial Engine (WatchWay):** Engineered a "Smart City" reporting platform utilizing **GIS telemetry** and **priority-queue algorithms** to rank infrastructure repairs based on hazard severity, streamlining municipal resource allocation. Preview at [WatchWay](#)
- **Logistics & Multi-Agent Routing Engine (Locus):** Architected a distributed AI system using Google's ADK to coordinate 7 specialized agents for real-time pathfinding and environmental analysis, demonstrating the capacity to build autonomous dispatch systems for optimized fleet allocation. Preview at [Locus](#)

## AWARDS AND CERTIFICATIONS

**Overall Best Graduating Student:** Department of Agricultural and Environmental Engineering

2025

## TECHNICAL SKILLS

- **Programming & Development:** Python, JavaScript, C, Java and C++
- **Cloud, DevOps & Observability:** AWS (Lambda, EC2), Kubernetes (k8s), Docker, Terraform (IaC), CI/CD.
- **Databases:** PostgreSQL, Neo4j, Vector Databases.
- **AI & Machine Learning:** Retrieval-Augmented Generation (RAG), AWS Bedrock, SageMaker, Multi-Agent Systems (Agentic Workflows, LangChain patterns).
- **Data Engineering:** ETL pipelines, Model Context Protocol (MCP), Automation (Celery, Redis, CronJobs, Selenium)
- **Operations Research:** (Linear Programming, MIP, VRP), **Engineering Simulation:** (Orbital Mechanics, Fluid Dynamics)