

Oluwasegun (Segun) Toriola

seguntoriola25@gmail.com +44 7943 004361

Paisley, Scotland

engtx.co.uk

linkedin.com/in/oluwasegun github.com/Oluwaseun22

MSc Information Technology student at the University of the West of Scotland (graduating June 2026), AWS Certified Solutions Architect (SAA-C03, 780/1000), and AWS Data Engineer candidate. I build and deploy cloud systems end-to-end — serverless pipelines, three-tier AWS architectures, and AI-powered automation tools. Background in mechanical engineering and data operations gives me a practical, systems-first approach to infrastructure and data problems.

SKILLS

Cloud & AWS	Lambda, EC2, S3, CloudFront, RDS, DynamoDB, EventBridge, SES, Elastic Beanstalk, API Gateway, IAM, Secrets Manager, Glue, Kinesis, Athena, Redshift
Languages	Python, JavaScript, TypeScript, SQL, Bash, HTML/CSS
Data & AI	Power BI, MySQL, PostgreSQL, DynamoDB, Firebase, BeautifulSoup, Claude API, REST APIs
Frameworks	React, Next.js, Node.js, Express.js, Tailwind CSS, Prisma ORM, NextAuth.js
Tools & Deploy	Git, GitHub, Vercel, AWS Elastic Beanstalk, EC2, GitHub Pages

PROFESSIONAL EXPERIENCE

Data and Operations Specialist

2022 – 2024

OS Toriola Steel Construction Company · Lagos, Nigeria

- Designed and maintained Excel-based data tracking systems for inventory, procurement, and project timelines across concurrent construction contracts
- Produced operational reports for senior management, surfacing cost trends and delivery performance across supply chain and site operations
- Coordinated supplier records and logistics data between site teams, reducing reconciliation time and supporting on-time delivery

Cleaning Operative

Jan 2025 – Present

DOC Cleaning · Paisley, Scotland

- Current part-time role maintained alongside full-time MSc study and multiple deployed side projects

PROJECTS

ENGMart — Cloud Retail & Inventory Platform

2025 – 2026

MSc Dissertation · React · Node.js · MySQL · AWS (RDS, Elastic Beanstalk, S3, CloudFront, IAM, Secrets Manager)

- Built a full three-tier AWS retail platform: React frontend on S3/CloudFront, Node.js/Express backend on Elastic Beanstalk, MySQL schema on Amazon RDS
- Progressed security audit score from 61 to 84/90 across four rounds — fixed privilege escalation via role field, missing admin guard on inventory route, and hardcoded credentials
- Enforced IAM least-privilege across all AWS services; all credentials managed via Secrets Manager; HTTPS end-to-end via CloudFront

NHS Sponsorship Tracker — Serverless AWS Pipeline

2025

AWS Lambda · EventBridge · DynamoDB · S3 · SES · CloudFront · Python

- Built a fully serverless pipeline (EventBridge → Lambda → NHS Jobs API → DynamoDB → S3 → SES → CloudFront) delivering automated sponsorship job alerts with zero manual intervention
- Two-stage Lambda filter — positive phrase matching then negative exclusion — eliminates false positives before database writes; DynamoDB deduplication prevents repeat alerts across 6-hour cycles

JobHunter Pro — AI-Powered Job Matching System

2025

Python · Claude API · AWS EC2 · Reed API · Node.js · ReportLab · Gmail SMTP

- Integrated Claude API to rewrite a tailored CV per job description — reduced manual application time from 30+ minutes to under 2 minutes; 100+ jobs scanned, 80+ CVs generated
- Deployed 24/7 on AWS EC2 with a Node.js dashboard for live job feed, application tracking, and role filters

SponsorMap — UK Visa Sponsor Search Tool

2024 – 2025

React · AWS Lambda · DynamoDB · API Gateway · Companies House API

- Aggregated Home Office sponsor register and Companies House API to surface employers legally authorised to hire international candidates

- DynamoDB with GSI enables sector-based filtering across thousands of records with sub-second query response; frontend deployed on GitHub Pages
- React frontend on GitHub Pages with API Gateway → Lambda backend; zero server infrastructure, sub-second responses

EDUCATION

MSc Information Technology

2025 - 2026 (graduating June 2026)

University of the West of Scotland · Paisley, Scotland

HND Mechanical Engineering

2019 - 2021

Lagos State Polytechnic · Lagos, Nigeria

CERTIFICATIONS

AWS Certified Solutions Architect - Associate (SAA-C03)

Score: 780/1000 · Valid to March 2029

AWS Data Engineer - Associate (DEA-C01)

In progress · Target: June 2026