

EDESIRI OHWOMADO

SOFTWARE ENGINEER

[in LinkedIn](#) | [+447777285241](tel:+447777285241) | [✉ ohwomadodezri@gmail.com](mailto:ohwomadodezri@gmail.com) | [GitHub](#)

PROFESSIONAL SUMMARY

Final-year Computer Science student with hands-on experience at AWS, enterprise projects, and as a startup technical lead. Skilled in full-stack and cloud-native development, building scalable platforms and analytics tools that drive measurable impact.

HONORS & AWARDS

- **Undergraduate Computer Science Excellence Scholarship:** Issued by the Department of Computer Science, University of Sheffield
- **Top Performing Student - International Foundation Year:** Issued by NCUK - The University Consortium

SKILLS

Frontend: HTML5 | CSS3 | JavaScript | Typescript | React.js | Next.js

Backend: Java | Spring Boot | Node.js | Nest.js | Python | Django

Database: PostgreSQL | MySQL | MongoDB (NoSQL)

Tools: Git | Github

EDUCATION

The University of Sheffield

BSc Computer Science

Expected Graduation - June 2026

- Relevant modules: Algorithms and Data Structures, Systems Design and Security, Data Driven Computing,

WORK EXPERIENCE

Amazon Web Services (AWS)

Software Development Engineer (Intern)

06/2025 - 09/2025

Technologies: AWS Kinesis, Lambda, DynamoDB, API Gateway, CloudWatch, IAM, S3, CloudFormation, React, TypeScript

- Built an Observability tool for a core AWS billing pipeline service processing **18M+ customer accounts every 12 hours**, reducing troubleshooting time for engineers from **2 hours to <10 minutes (~92% improvement)**.
- Designed and implemented a fire-and-forget serverless data pipeline (Kinesis → Lambda → DynamoDB) ingesting **600M+ daily events** with a **99.9% capture rate** with **<1% overhead**, ensuring no impact on core processing.
- Developed a React/TypeScript dashboard providing account-level timelines, latency insights, error tracking, and dependency visualization, enabling **root-cause analysis in minutes**.
- Prevented **1–2 customer-impacting incidents monthly** and saved **15–20 engineering hours/month** through automated correlation and streamlined troubleshooting.
- **Implemented CloudWatch monitoring** for event ingestion and endpoints, delivering **real-time visibility** into system health and performance.

Rime Technology Ltd

Technical Lead

01/2024 - 07/2025

- Led a 5-member engineering team to build Rime, a creator-brand collaboration platform onboarding **5,000+ creators and 200+ brands across Africa**.
- Designed and implemented full-stack architecture with NestJS, Next.js, TypeScript, and PostgreSQL enabling **automated campaign management and real-time analytics** for brand campaigns.
- Integrated Meta and TikTok APIs, enabling brands to track performance metrics for creator videos, **improving campaign performance monitoring**.
- Established engineering best practices, CI/CD pipelines, and scalable systems, reducing deployment errors by **80%** and supporting rapid feature rollout.
- Delivered a platform that enabled brands to **run campaigns reaching millions of impressions**, driving measurable ROI and authentic creator marketing at scale.

PROJECTS

AI Image Detection (Dissertation Project)

Technologies: Python, PyTorch, Computer Vision, Deep Learning

- Built CNN-based image classifier (EfficientNet-B0), achieving **99.46% accuracy** on in-distribution data
- Designed and implemented a **residual-based preprocessing pipeline** to extract high-frequency forensic features for improved detection
- Conducted cross-dataset testing, showing performance drop from **99.46% to 65.20%**, highlighting poor real-world generalisation
- Demonstrated that residual features improved unseen accuracy (**69.10% vs 65.20% baseline**) but reduced robustness to JPEG compression
- Identified key limitation of AI detection systems: **high accuracy on seen data does not guarantee generalisation to new image sources**