

Mmesoma Nwachukwu

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[Git hub profile](#), [LinkedIn](#)

EDUCATION

Coventry University

Expected Graduation May 2026

BSc Computer Science – *Predicted First Class Honors*

Courses: Programming and Algorithms, Computer Systems, Mathematics for Computer Science, Artificial Intelligence, Theory of Computation, Advanced Algorithms, Data Science, Software Engineering,

PROFESSIONAL EXPERIENCE

Digital Services Year in Industry

National Highways

July 2024-July 2025

- Built AI models to improve efficiency and support multi-billion-pound infrastructure management.
- Developed a knowledge graph with Retrieval-Augmented Generation (RAG) to extract insights from a large corpus of interconnected documents.
- Built a computer vision model to remove weather effects from CCTV images for clearer traffic analysis.
- Acted as Data Scientist in a Scrum team to deliver a geospatial segmentation model for asset management.
- Collaborated with stakeholders to align business needs with technical delivery.

AI Trainer

Outlier AI

July 2024-May 2025

- Trained generative AI models for code generation through problem-solving and output evaluation.
- Created functional test cases and provided technical feedback to improve AI-generated code
- Applied software engineering across Python, JavaScript, and C++ to develop next-gen coding tools.

Research Intern

Imperial College London

June-July 2023

- Collaborated in a cross-functional team to design sustainable solutions in energy and infrastructure.
- Prototyped data-driven technologies addressing climate resilience and scalability.
- Worked with researchers and industry mentors to assess impact and feasibility of innovations.

Software Engineering Intern

Paradigm Finance

Sept-December 2021

- Implementing and adhering to security best practices to safeguard sensitive financial data.
- Assisted with basic credit risk analysis by building tools to assess client portfolios and generate reports.
- Developed and maintained internal web applications.

PROJECTS

Image Verification SAAS product

- Developed an image recognition and verification model using convolutional neural networks
- Sold the system to clients for security system integrations.

ExcelPoint Web Application

- Creating an AI-powered web application for educational development and guidance.
- Integrating machine learning algorithms for career trajectory analysis.
- Using AI to help students understand their course materials better

LEADERSHIP EXPERIENCE

Head of Engineering

Responsible AI Governance Initiative

Aug 2025-Present

- Leading the engineering efforts for a nonprofit focused on responsible AI development and governance.
- Managing a cross-functional technology team to build projects aligned with ethical AI standards.
- Overseeing architecture and development of technical projects

SCHOLARSHIPS AND AWARDS

- **Year in Industry Student of the Year** – National Highways (*1 of 10 selected from 400 participants*)
- **Santander Universities Scholarship** – Santander Bank (*1 of 100 nationwide*)
- **AWS Machine Learning Scholarship** – Top 2% of 50,000+ DeepRacer applicants
- **Best Canadian Foundation Student** – 16 Plus Schools
- **Intern of the Year** – Paradigm Finance

SKILLS

- **Languages:** Python, C++, JavaScript, HTML/CSS, R, Typescript, SQL,
- **Tools:** TensorFlow, PyTorch, NumPy, Pandas, Databricks, PostgreSQL, MongoDB, Git, VS Code, Jupyter, AWS, Knowledge Graphs, React,

CERTIFICATIONS

- CISCO Networking Academy: Introduction to Networks
- Coursera - Convolutional Neuro Networks

VOLUNTEERING

- **Coventry University Sports Society** – Football captain
- **Big Bang Fair Volunteer 2025**
- **Student Mentor** – Zero Gravity