

Mmesoma Nwachukwu

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EDUCATION

Coventry University

Expected Graduation May 2026

BSc Computer Science – *Predicted First Class Honours*

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

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

Data Science 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

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