Mmesoma Nwachukwu

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Git hub profile, LinkedIn

PERSONAL PROFILE

A dedicated and results-driven Computer Science student on track for a First-Class Honours degree from Coventry University with industry experience in AI, data science, and full-stack development. Proven ability to develop AI solutions and data-driven applications through a placement at National Highways, contributing to geospatial analysis and asset portfolios Strong technical skills in software projects, machine learning and cloud computing and working effectively in cross-functional teams. Seeking an entry-level software engineering role to apply my technical skills and problem-solving abilities in a dynamic environment.

INDUSTRIES SKILLS AND CERTIFICATES

Software Development:

- Back-End Development: Django, RESTful APIs, Python, C++
- Front-End Development: React, HTML AND CSS
- Database Management: PostgreSQL, MongoDB, SQL
- Version Control & Deployment: Git

Data Science & AI:

- Machine Learning: TensorFlow, PyTorch, Numpy
- Data Analysis: Python (Pandas, NumPy), R
- Big Data Tools: pg4Admin, Databricks
- Cloud computing: Azure, Databricks

Technical and Soft Skills:

- Agile Development
- Project Management: Four years of experience in managing technical projects across academic, personal and industry setting.
- Stakeholder engagement

Certifications:
- Imperial College - Revolutions in Engineering
- CISCO Networking Academy: Introduction to Networks
- Coursera - Convocutional Neuro Networks

EDUCATION

September 2022 – May 2026   **Coventry University**

BSc Computer Science (Predicted First Class Honours)
- **Technical Modules:** Software Engineering, Big Data Project, Data Science, Introduction to Artificial Intelligence
- **Core Modules:** Programming and Algorithms, Operating Systems, Computer Architecture, Systems and Networking

September 2020 to July 2021   **16 Plus Schools**

Canadian Foundation (A level Equivalent)
- Achieved distinction in Mathematics and Sciences
- Awarded **Best Canadian Foundation Student**

September 2014 to Jun 2020   **Grace High School**
WAEC (GCSE Equivalent)
- Achieved A grades in STEM subjects including Further Mathematics and Computer Science

KEY I.T PROJECTS

Vendor Booking System   **Lead Developer**   **October 2023 - December 2023**
- Developed a web application connecting vendors with customers in the grooming and beauty industry.
- Implemented booking functionality, user authentication, and vendor management systems.

PDF Processing LLM System   **Lead Developer**   **December 2023 - Present**
- Building an advanced Large Language Model system for processing PDF documents.
- Implementing Knowledge Graphs, Natural Language Processing, and Retrieval-Augmented Generation (RAG).

Image Verification and Recognition System   **Creator**   **November 2023 - Present**
- Developing an image recognition and verification model using convolutional neural networks.
- Implemented facial recognition capabilities with high accuracy rates.

Career Development Web Application   **Lead Developer**   **September 2023 - Current**
- Creating an AI-powered web application for career development and guidance.
- Integrating machine learning algorithms for career trajectory analysis.

RELEVANT EXPERIENCE

July 2024-June 2025   **National Highways**   **Year in Industry**
Data Science Rotation
- Developing and implementing AI models for various business applications.
- Building and maintaining datasets for model training and validation.
- Supporting the geospatial team in managing £5 billion worth of infrastructure assets.

Business Partnering Rotation

- Managed and optimised dashboards tracking over £20 billion in infrastructure assets.
- Served as a crucial link between business demands and implementation teams.
- Managed communications and coordinated meetings between Subject Matter Experts (SMEs).
- Created and maintained dashboards for trend analysis and data visualisation.

August 2023 – August 2024   **Uzuri Tribe**   **Machine Learning Developer**

- Built a custom Dialogflow chatbot for skincare consultations.
- Optimised intent matching and entity extraction to improve chatbot accuracy.
- Created and maintained training phrases and responses to enhance natural language understanding.

Sep 2021 – December 2021   **Paradigm Finance**   **Software Engineering Intern**

- Implementing and adhering to security best practices to safeguard sensitive financial data.
- Used Git for version control, track progress, and collaborate effectively with other team members.
- Participating in code reviews to improve software quality.

SCHOLARSHIPS AND ACHIEVEMENTS

- Awarded a full ride scholarship to study Machine Learning from Amazon Web Services (AWS).
- Awarded a scholarship to support my university education from Santander Bank.
- Earned a highly competitive full ride scholarship in the Revolutions in Engineering at Imperial College London
- Recognised as Best Canadian Foundation Student in 16 Plus Schools.
- Awarded for outstanding performance as a software intern in Paradigm Finance.