CHARLES ITA EKANEM

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EDUCATION
NILE UNIVERSITY OF NIGERIA

Bachelor of Engineering (B. Eng) in Computer Engineering

Expected Graduation: November, 2025

Relevant Coursework: Artificial Neural Networks, Data Structures and Algorithms, Control Systems, Computer Programming with C++, Python and MATLAB, Probability and Statistics.

EXPERIENCE
Junior Network Engineer (Intern)

Gigaxysafe Technologies – Abuja FCT, Nigeria (March 2024 – August 2024)

- Established communication channels through installation and configuration of Voice-over-IP (VoIP) devices.
- Installed, troubleshot and maintained Network Devices to ensure optimal performance.
- Engaged and provided support for clients in best choice Network layout and device selection.
- Performed cable management with labeling and protection.

TECHNICAL SKILLS
Languages: Python, C/C++, JavaScript, HTML, MATLAB.

Frameworks & Tools: PyTorch, Scikit-learn, GitHub, AWS, Keil.

Other: Visual Studio Code, Arduino, Wireshark, Blender, Proteus, AutoCAD.

OS: Raspberry Pi OS, Windows.

PROJECTS
DEEPFAKE DETECTION SYSTEM WITH CNN (2024-2025)
- Designed and trained a Convolutional Neural Network (CNN) using InceptionResNetV1 on FaceForensics++, Celeb-DF V2 and Openforensics datasets for facial forgery detection.
- Achieved 97.15% validation accuracy, applied dropout for regularization.
- Drafted IEEE-style research paper for conference submission.

HANDS-FREE TRASH: AN ARDUINO-ENABLED WASTE BIN (2024)
- Designed and implemented a wiring diagram for automating a waste bin open/close functionality.
- Integrated servo motor, Arduino uno, ultrasonic sensor to build the system.
- Assembled and tested the systems' functionality.

SIMPLE Tic-Tac-Toe (X and O) GAME WITH PYTHON (2022-2023)
- Employed Waterfall Model to develop a simple software project with Python.
- Implemented a 3x3 Grid structure Tic-Tac-Toe game with game logic allowing players to take turns.
- Ensured input validation and error handling.

CERTIFICATIONS
- Computer Hardware Basics – Cisco (2025)
- AWS Educate: Getting started with Networking – Amazon Web Services (2024)
- HCIA Datacom V1 Course - Huawei (2023)