

## **NWADIARO MIRACLE CHUKWUMA**

### **PERSONAL INFORMATION**

**Address:** Uyo, Nigeria

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**GitHub:** miracle73

### **WORK EXPERIENCE**

#### **Machine Learning Engineer / AI Engineer**

**Safeguardmedia** | June 2024 – Present

- Architected scalable AI solutions for real-time disease detection and classification using computer vision and deep learning techniques
- Currently building advanced deepfake detection systems using transformer-based architectures and multi-modal analysis
- Implemented MLOps pipelines for model versioning, monitoring, and automated deployment in production environments
- Collaborated with agricultural experts and veterinarians to ensure model accuracy and practical applicability in field conditions

#### **Machine Learning Intern**

**Start Innovation Hub** | November 2023 – June 2024

- Gained hands-on experience in machine learning model development and deployment under senior ML engineers
- Participated in data preprocessing, feature engineering, and model training for various client projects
- Assisted in implementing data collection and annotation processes for supervised learning tasks
- Conducted exploratory data analysis and contributed to research on emerging ML techniques and frameworks
- Supported the development of proof-of-concept AI applications and participated in client presentations
- Learned industry best practices for ML project lifecycle management and collaborative development workflows

## **Software Developer**

**DevCareer (Remote)** | September 2022 – September 2023

- Developed algorithmic solutions for automated assessment and scoring systems in educational technology
- Implemented security protocols and authentication frameworks for multi-user platforms
- Contributed to research on scalable recruitment and assessment methodologies for technical talent

## **Software Developer Intern**

**Distrobird Software Company (Remote)** | May 2020 – August 2020

- Participated in collaborative software development projects with focus on payment processing systems
- Gained foundational research experience in software architecture and deployment methodologies

## **EDUCATION AND TRAINING**

**Bachelor of Engineering in Electrical and Electronics Engineering**

**Federal University of Technology Owerri** | 2015 – 2021

- **GPA:** 3.86/5.00
- **Classification:** Second Class Upper Division

## **PERSONAL SKILLS**

**Programming Languages**

Python, JavaScript, TypeScript, R (for statistical analysis)

**Machine Learning & AI**

- **Frameworks:** TensorFlow, PyTorch, Scikit-learn, Keras, Hugging Face Transformers
- **LLM Technologies:** OpenAI API, LangChain, Vector databases (Pinecone, Chroma), RAG systems
- **Deep Learning:** Neural network architectures, transformer models, fine-tuning techniques

**MLOps & Cloud Infrastructure**

- **Cloud Platforms:** Google Cloud Platform (ML services and compute)
- **Containerization:** Docker, Kubernetes for ML model deployment
- **ML Pipeline Tools:** MLflow, Kubeflow, Apache Airflow, DVC (Data Version Control)
- **Model Serving:** FastAPI, Flask, TensorFlow Serving, model versioning and monitoring

## **Agentic Systems & AI Agents**

- **Agent Frameworks:** LangGraph, CrewAI, AutoGen, multi-agent orchestration
- **Web Automation:** Selenium, Playwright, browser automation for agentic web applications
- **API Integration:** RESTful APIs, GraphQL, webhook systems for agent communication

## **Development Tools & Frameworks**

- **Version Control:** Git, GitHub, collaborative development workflows
- **Databases:** MongoDB, MySQL, vector databases for AI applications
- **Frameworks:** React, Next.js, NestJS, FastAPI, Node.js, React Native, Tailwind CSS
- **Research Tools:** Jupyter Notebooks, Google Colab, experiment tracking systems

## **Communication & Soft Skills**

- Technical writing and documentation
- Cross-functional team collaboration
- Project management and timeline coordination
- Mentoring and knowledge transfer

## **ADDITIONAL INFORMATION**

### **Projects**

#### **Deep-fake Detection Framework**

- Currently developing and contributing to deep-fake detection models using advanced computer vision and neural network architectures
- Research focuses on multi-modal detection techniques combining facial landmark analysis, temporal inconsistency detection, and transformer-based architectures for video authenticity verification
- Implementing novel approaches for real-time deep-fake detection with optimized inference speeds suitable for social media platforms
- Contributing to community datasets and benchmarking methodologies for improved model evaluation standards

## **Leadership & Academic Service**

### **Technical Secretary**

**Nigerian Universities Engineering Students Association, FUTO Chapter | March 2018 – May 2019**

- Organized academic field studies including industrial site visits (Port Harcourt Refinery)
- Coordinated Health, Safety & Environment (HSE) workshops and technical seminars for 200+ engineering students
- Facilitated knowledge transfer between industry professionals and academic community

## **Awards & Recognition**

### **NAOC Scholarship (2016)**

Nigerian Agip Oil Company Educational Grant for academic excellence

### **Seplat JV Scholarship (2018)**

Seplat Petroleum Development Company Joint Venture Educational Award for outstanding academic performance

## **REFERENCES**

Available upon request