

NWADIARO MIRACLE CHUKWUMA

PERSONAL INFORMATION

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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, FUT0 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