FAKOREDE AKINWANDE ALEXANDER

Python Developer | Data Scientist | Machine Learning Engineer

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PROFESSIONAL SUMMARY

Results-driven Python Developer with 4+ years of experience specializing in backend development, data science, AI/ML solutions, and cybersecurity. Proficient in Python, Django, Flask, Streamlit, NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, Flink, Kafka, Cassandra, and cloud technologies (AWS, Azure). Strong expertise in intrusion detection, cryptographic security, and clustering algorithms. Passionate about research, training, and mentoring aspiring data professionals.

TECHNICAL SKILLS

- Programming Languages: Python, Java, Javascript

- Frameworks & Tools: Django, Flask, Streamlit

- Data Science & Machine Learning: NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch

- Cloud & Big Data: AWS, Azure, Kafka, Flink, Cassandra

- Cybersecurity & Cryptography: RSA, 3DES, Intrusion Detection Systems (IDS)

- Other Skills: Data Encryption, Software Optimization, Microservices Architecture, Code Review, Graphics Design

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PROFESSIONAL EXPERIENCE

Python Backend Developer

720 Degree Innovation Hub | Abeokuta, Ogun State | 09/2023 – 08/2024

- Developed and deployed a blog website using Django, enhancing the company's online presence.

- Built an inventory management system that optimized operations and increased financial returns.

- Led backend development for multiple applications, ensuring scalable architecture.

- Trained and mentored 2 junior developers in Flask and Django.

Data Analysis Facilitator

GRAZAC Academy | Abeokuta, Ogun State | 01/2024 – 06/2024

- Trained and mentored 10 students in Python-based data analysis.
- Developed curriculum covering data cleaning, EDA, and visualization using Pandas, NumPy, Matplotlib, and Seaborn.
- Guided students through real-world data projects to enhance employability.

Project Assistant (PhD Concept Drift Detection App)

USM (Malaysia) | 01/2023 – 04/2023

- Assisted in developing a real-time concept drift detection application.
- Implemented a system to monitor model accuracy and automate retraining when drift occurred.
- Utilized PyFlink, Azure, ElasticsearchDB, and Kafka for efficient data streaming and deployment.

Project Assistant (PhD Mining Engineering - Dust Control System)

USM (Malaysia) | 2023

- Assisted in a PhD research project on dust particle control and management in mining sites using machine learning models.
- Developed predictive models to optimize dust suppression techniques and ensure environmental compliance.
- Worked with data from industrial mining operations, applying AI-based risk assessment techniques.

Project Assistant (Master's Project - Intrusion Detection in MANETs)

USM (Malaysia) | 2023 – 2024

- Developed an improved algorithm for Intrusion Detection and Prevention in Mobile Ad-hoc Networks (MANETs) using Python.
- Implemented an object-oriented modeling approach to design a modular and scalable intrusion detection system.
- Simulated real-world MANET environments, integrating RSA and 3DES cryptographic techniques to enhance network security.

- Evaluated system performance under different network conditions, validating its effectiveness in preventing attacks.

EDUCATION

Bachelor of Science in Computer Science
Joseph Sarwuan Tarka University, Makurdi | **2017 – 2021**
GPA: 4.25/5.0

RESEARCH & PROJECTS

- Customer Segmentation System (Final Year Project) – Developed a K-Means clustering algorithm for a small business shopping mall dataset, categorizing customers based on spending behavior.

- Concept Drift Detection in Real-Time Machine Learning Models – Assisted in research and implementation of a drift detection system using Azure, Kafka, and ElasticsearchDB.

- Automated Inventory Management System – Designed and developed a Django-based application to enhance operational efficiency.

- Predictive Analytics for Student Performance – Built a machine learning model to analyze academic trends and predict student outcomes.

- Intrusion Detection & Prevention System for MANETs – Designed and implemented an object-oriented cryptographic framework using RSA and 3DES to enhance MANET security.

CERTIFICATIONS

- Advanced Python for Data Science – Sololearn

- Machine Learning & AI Foundations – Sololearn

- AWS Cloud Practitioner – Amazon Web Services

- Big Data & Streaming Analytics – Coursera

STRENGTHS & COMPETENCIES

- Analytical Problem-Solving: Identified project bottlenecks, optimized real-time data analysis, and enhanced system adaptability.

- Cybersecurity Expertise: Applied cryptographic methods (RSA, 3DES) to secure MANETs against intrusion and attacks.

- Team Leadership: Managed a team of 5 developers at 720 Degree Hub, increasing team productivity by 25%.

- Effective Communication: Coordinated cross-functional efforts to ensure seamless project execution.

LANGUAGES

- English (Native)

CONFERENCES & WORKSHOPS

- Data Science Africa Summit (2023) – Speaker on machine learning trends and ethical AI applications.

- Python Nigeria Meetup (2022) – Conducted workshop on Flask and Django for web development.

PASSIONS

- Data-Driven Solutions: Passionate about AI, cybersecurity, and machine learning innovations to drive impact and efficiency.

ADDITIONAL INFORMATION

Available for remote and on-site opportunities. Open to collaborations in Python development, data science, cybersecurity, and AI research.