Suliah Victor Bamomwo

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GitHub: github.com/bamomwo — LinkedIn: linkedin.com/in/bamomwo

Research Interests

Machine Learning, Computer Vision, Natural Language Processing

Education

University of Electronic Science and Technology of China (UESTC) 2024 – 2026 (Expected)
Master of Engineering in Software Engineering
Scholarship: Chinese Government Scholarship

University for Development Studies, Tamale, Ghana 2016 – 2022
BSc. Computer Science, First Class Honors (GPA: 4.52/5.00)
Scholarship: MTN Bright Scholarship

Research Experience

Teaching Assistant CKT-University of Technology and Applied Sciences
2020 – 2021
Advisor: Prof. Edward Y. Baagyere

- Assisted in delivering undergraduate courses: Computer Graphics and Introduction to Python Programming.
- Supported lesson planning, tutoring, and assessment.

Publications

- Suliah Victor Bamomwo. *Learning Individual Health Baselines from Wearable Biosignals for Unsupervised Anomaly Detection*. Manuscript in preparation, 2025.

Projects

Prompt-Driven Personalized Learning with Large Language Models *Ongoing*
An intelligent tutoring platform leveraging system prompts and LLMs to deliver personalized, adaptive learning experiences. My contributions include prompt engineering, backend development, and personalization logic.

Early Detection of Disease Onset Using Wearable Data: A Deep Learning Approach *Ongoing*
Developing a deep learning framework to model individual health baselines and detect anomalies in physiological signals (e.g., heart rate, EDA). Techniques used include unsupervised learning, PyTorch, and signal processing.

Professional Experience

Technology Officer Afro Technologies, Accra, Ghana
2023 – 2024

- Contributed to the design of backend infrastructure for educational technology products.
- Led prototyping of adaptive learning tools.

- Collaborated on research into AI-based education systems.

Technical Skills

- **Languages:** Python, JavaScript, C++
- **Machine Learning:** PyTorch, OpenCV, Hugging Face Transformers
- **Tools:** Git, Jupyter Notebook, MS Office
- **Databases:** SQL, PostgreSQL, MongoDB
- **Frameworks:** Node.js, Flutter

Awards and Leadership

- Chinese Government Scholarship (2024)
- MTN Bright Scholarship (Undergraduate)
- Best Graduating Computer Science Student (2022)
- President, Computer Science Association, UDS
- President, MTN Bright Scholars, UDS

References

Available upon request.