

AZEEZ AKINLOLU

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Fountain University Osogbo,
PMB 4491, Osogbo, Nigeria.

EDUCATION

MSc University of Ilorin, Nigeria, Computer Science October 2017
Thesis: "Detection of an Online Phishing Attacks using a Transparent Proxy System"
Advisor: Prof R.G. Jimoh

BSc Olabisi Onabanjo University, Nigeria, Computer Science August 2010
Thesis: "Addressing Weaknesses in the Domain Name System Protocol"
Advisor: Dr. O.O. Solanke

RESEARCH EXPERIENCE

Deep Learning for Diagnosis of Indigenous Tuber Crops Diseases

Osun State University, Nigeria Present

- Designed system model using Unified Modeling Language tools
- Obtained dataset of crop leaves images using smartphone cameras
- Trained Convolutional Neural Network (CNN) using Python, to recognise and classify images of infected crops
- Use Expert System Shell for Text Animation (ESTA) to encode domain knowledge in if-then Rule and formulate decisions on crops' health status and recommend controls

Development of an Intelligent Pipeline Vandalism Detection and Reporting System (IPVDRS)

Fountain University Osogbo, Nigeria 2018

Senior System Analyst, Department of Computer Sciences Lab

- Validated the software system against the functional requirements/specifications
- Modelled IPVDRS with Unified Modeling Language (UML)
- Simulated the IPVDRS performance with a remote sensing GIS
- Interpreted the readings of the remote sensors on pipelines

Detection of an Online Phishing Attacks using a Transparent Proxy System,

University of Ilorin, Nigeria 2016
Advisor: Prof R.G. Jimoh

- Exploited rulesets in a proxy system to intercept requests from Internet users
- Developed a notification for potential phishing threats
- Simulated antiphishing system on a Linux-based OS
- Configured Network interface card(s)
- Filtered communication from Internet users

Addressing Weaknesses in the Domain Name System Protocol”

Olabisi Onabanjo University, Nigeria

2010

- Examined weaknesses in the Domain Name System (DNS) protocol
- Exploit a method to abuse the DNS for breaks-in.
- Analysed DNS protocol Algorithm
- Analysed Resolver algorithm
- Setup name servers and trusted hosts in a Local Area Network

TEACHING EXPERIENCE

Fountain University Osogbo, Nigeria

October 2017 to Present

Teaching Assistant, Computer Sciences Department

- **Taught Computer Network Security Course**

A study of key security issues and procedures in computer and mobile communication networks. Discuss the security of LANs, WANs, databases, and network operating systems; threats to computer networks through exploitation of network infrastructure design weaknesses; security flaws in the network infrastructure protocols.

- **Taught Computer Architecture Course**

Covered topics including: Fundamentals of computer design, Instruction set architecture (ISA), Pipelining, Vector and GPU, caches, Memory hierarchy, Multicores

- Developed quizzes, exams, and homework
- Coordinated grading and recordings

Bachelors Students Co-Advised

- Habeeb Lawal, “Crime prediction system using Machine Learning”, 2022
- Oluyemi Ayomide, “Design and Implementation of An Automated Inventory Control System for A Manufacturing Organisation” 2022
- Folarin Opeyemi, “Design and Implementation of a Suggestion and Opinion Poll System”, 2021
- Hamzat Adekola, “Development of An Enhanced Repository System”, 2020
- Hussaini Biriri, “Design and Implementation of An Intranet Office Chat Application, 2019

WORK EXPERIENCE

Fountain University Osogbo, Nigeria

June 2012 to 2022

Network and System Engineer, ICT Unit

- Configure and install various network devices, software tools and services e.g., routers, switches, AP, firewalls, etc.
- Administration of the internet network
- Implementing network access, firewall and security controls
- Perform network maintenance and system upgrades including service RouterOS upgrade, firmware upgrade, and security configurations
- Monitoring Internet bandwidth performance, usage and users’ logs
- Reporting internet downtimes issues to Service Provider
- Respond to all computer-related issues and provide technical support to students and faculty members.

PUBLICATIONS

Published Articles

[Akinlolu, A. O., Jimoh, E. R., Alabere, I. A., & Ekundayo, O. \(2024\). A Comparative Analysis of Deep Learning Techniques for Insider Threat Detection. *FUW Trends in Science & Technology Journal*, 9 \(2\), 238 – 246.](#)

[Jimoh, E. R., Oladele, T. O., Oladele, O. T., Akinlolu, A. O., Akanbi, M. B., & Olabanke, O. W. \(2024, April\). CNN-LSTM Model for Mitigation of DDoS Attacks in Software-Defined Networks. In *2024 International Conference on Science, Engineering and Business for Driving Sustainable Development Goals \(SEB4SDG\)* \(pp. 1-8\). IEEE.](#)

[Akinlolu, A. O., Odejebi, O. A., Ajayi, F. O., & Jimoh, E. R. \(2023, April\). Mobile-Based Deep Learning for Yam Disease Diagnosis. In *2023 International Conference on Science, Engineering and Business for Sustainable Development Goals \(SEB-SDG\)* \(Vol. 1, pp. 1-6\). IEEE.](#)

[Jimoh, E. R., Akinlolu, A. O., Akanbi, M. B., & Olojede, O. A. \(2023\). An Android-Based Yorùbá Numeral Translation System. *FUOYE Journal of Pure and Applied Sciences \(FJPAS\)*, 8\(3\), 38-46.](#)

[Azeez, R. A., & Akinlolu, A. O. \(2019\). Development of an Intelligent Pipeline Vandalism Detection and Reporting System. *Fountain Journal of Natural and Applied Sciences*, 8\(2\), 21-27.](#)

PRESENTATIONS AND INVITED LECTURES

Workshop

AI4D Workshop 2022: The University of Dodoma (UDOM), Tanzania

Paper Presented: Mobile-Based Deep Learning for Yam Disease Diagnosis

PROFESSIONAL TRAINING

-Digital Bridge Institute (DBI), 2022
SPSS for improved productivity and research

- AI Invasion, 2021
Beginners' Introduction to Python and Machine Learning

- Eko-Konnnect, Lagos State University, Nigeria, 2018
Model Campus Internet Network

- Olive Web Solutions, Ikeja, Nigeria, 2013
Intensive PHP Framework for web development

HONORS AND AWARDS

Google Africa Scholarship

2018

A Nanodegree scholarship to aspire developer in learning Android Basics

PROFESSIONAL AFFILIATIONS

Member - Nigeria Computer Society (NCS), 2020 - Present

A+ Professional, CompTIA 2012

PROFESSIONAL SERVICE

Journal Manager and Layout Editor 2016 - Present

- Fountain Journal of Natural and Applied Sciences

COMMUNITY SERVICE

Joint Admissions and Matriculation Board (JAMB)

IT Officer, CBT Examinations, Osogbo, Nigeria, 2017

National Youth Service Corps (NYSC)

Provost, Social and Welfare Community Service Group, Osogbo, Nigeria, 2011

LANGUAGES

English: Native Language

COMPUTER SKILLS

Programming: Python, PHP, JAVA, XML, HTML, MySQL

Applications: Android Studio, ESTA, MATLAB, Lucidchart, Dreamweaver

Platforms: Windows, Linux

OTHERS

Interests/Hobbies in Sports