TOLULOPE FAKOYA

Linkedin
Github
tolulopefakoya2@gmail.com
Ontario, Canada
Website

EDUCATION

Babcock University
B.Sc Software Engineering
Ogun State, Nigeria.
2019 – 2023
- **Grade:** First-Class Honors
- **Relevant Coursework**: Algorithms and Data Structures, Database System Design-Implementation and Management, Linux System Administration.

Ontario Tech University
M.Sc Computer Science
Ontario, Canada.
2025 – Present
- **Grade:** In-View

SKILLS

- Vulnerability Assessment and Penetration Testing (VAPT).
- Proficiency in programming languages (e.g., Python, JavaScript).
- Secure coding practices.
- Model tuning and hyperparameter optimization.
- Cloud platforms (AWS, Azure, GCP)
- Software architecture and design patterns

CERTIFICATIONS

- **AWS Certified Machine Learning - Specialty [**Click to view**]**
- **Comptia Security + –** CompTIA Security+ ce **[**Click to view**]**
- **ISC2 (CC) –** Certified in Cybersecurity **[**Click to view**].**
- **AWS Certified DevOps Engineer - Professional**[Click to view].
- **AWS Certified Solutions Architect - Associate** [Click to view].
- **PCAP** – Certified Associate in Python Programming [Click to view]

Awards and Recognitions

- Google Developer Student Club - Honorary Award For Cybersecurity [view]

PROFESSIONAL EXPERIENCE

Lead Solutions Architect - Full Time
Vontech Group | Oct 2024 - Present

- Designed and developed AI solutions leveraging AWS services such as AWS Bedrock and SageMaker, this enabled clients accelerate their machine learning workflows and reduce model deployment times by 35%.

- Led migration efforts for 5+ startup clients, executing lift-and-shift strategies for existing infrastructure to AWS, reducing operational costs by 25% on average and improving system reliability.

- Integrated traditional AI workflows with AWS services such as AWS Lambda, Amazon RDS, and Amazon S3, enabling seamless data preprocessing, model training, and inference pipelines that reduced processing times by 25%

- Integrated traditional AI workflows with AWS services such as AWS Lambda, Amazon RDS, and Amazon S3, enabling seamless data preprocessing, model training, and inference pipelines that reduced processing times by 25%

DevOps Engineer - Full Time
Datamellon | Oct 2023 - Oct 2024

- Implemented robust CI/CD pipelines using Jenkins and AWS CodePipeline, leading to a 60% decrease in deployment times and a 30% increase in deployment frequency.

- Automated routine tasks and workflows with Terraform and AWS Lambda, reducing manual intervention by 80%.

- Analyzed and optimized cloud spending, employing Reserved Instances and Spot Instances to achieve a 25% cost saving on AWS bills.

- Employed serverless architecture to architect and deploy scalable, cost-efficient solutions for clients, resulting in a 40% decrease in infrastructure expenses.

- Implemented Large Language Model (LLM) agents to streamline in-house operations, improving infrastructure development speed by 40% through automation and advanced generative capabilities.

System Administrator - Part Time
Azul Nigeria | Jan 2021 - Jun 2023

- Managed network infrastructure, including switches, routers, and firewalls, resulting in a 25% increase in network reliability and speed.

- Led incident response efforts for critical system failures, achieving a mean time to resolution (MTTR) of less than 1 hour.

- Developed scripts using PowerShell and Bash to automate routine tasks, reducing manual workload by 60%.

- Set up and maintained monitoring tools (e.g., Nagios, Zabbix) to track system health and performance, leading to a 50% reduction in downtime.

MEMBERSHIP

ISC2 Member   Dec 2023 - Present
world's leading member association for
cybersecurity professionals

BUCC Member   2023 - Present
Babcock's University Computer Club for
Babcock University Students

GDSC Memeber   Nov 2022 - Jun 2023
Cyber Security Co-Lead
Google Developer Students Club
Babcock University

Interests & Hobbies

- CTF Challenges
- Reading
- Riddles
- Anime

Language(s)

English

SOFT SKILLS

- Teamwork
- Patience
- Flexibility
- Communication
- Problem Solving

Tools

- Numpy
- Pandas
- Javascript
- Git
- Puppet
- Metasploit
- burpsuite
- Nmap
- Terraform
- Docker
- Postman

Backend Developer - Intern
HIIT Plc. | Jan 2022 - June 2022

- Increased student understanding of Python concepts by 20% as measured by pre- and post-training assessments

- Led team in building small-scale web applications with Python frameworks like Django, delivering 5 projects.

- Effectively communicated technical concepts with enthusiasm and clarity, resulting in a 30% increase in audience engagement and comprehension during presentations and discussions.

Projects

THENDER [view project]

- Developed a Web Socket-based file transfer app with Django Rest Framework for seamless cross-platform data transfer, prioritizing privacy by avoiding intermediary servers.
- Provided a simplified solution for large file transfers over the internet, bypassing torrent complexities and cloud storage limitations, ensuring a streamlined and secure sharing experience.

Hunter control [view project]

- Developed a Terminal based program to allow multiple users and clients connect seamlessly, and have multiple independent sessions which allow the trade of commands and responses across a remote network.

LocalRAGify [view project]

- Designed and Impleted a free, local Retrieval-Augmented Generation (RAG) system that combines open-source tools like OpenSearch and Ollama with a user-friendly chat interface powered by Streamlit.

Articles

Managing Database Environments Efficiently with Prisma, Docker, and Environment Variables

The purpose of the article was to showcase how a Prisma project can be set up with production and development databases using a contact list app, and the order of migration or changes to the schema would be done. [Read]

Build Your Own Zero Cost ChatGPT

The article walks you through setting up a zero-cost, local Retrieval-Augmented Generation (RAG) chatbot using open-source tools like OpenSearch and Ollama for document retrieval and generative AI. [Read]

CTF Write-Ups

Crack The Hash - Try Hack Me

Crack the Hash is a Capture the Flag (CTF) challenge focused on hash cracking. Participants are given hashed values, typically derived from passwords or sensitive data, and must identify the original plaintext values. [Preview]