Tim Udoma

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(LinkedIn Profile | GitHub Profile | Website | Certifications)

Professional Summary

Experienced Software Engineer with 6+ years of expertise in backend engineering, cloud infrastructure, and machine learning. Proven success in building scalable, secure enterprise solutions and optimizing machine learning workflows. Strong background in working across diverse teams to drive technological innovation and streamline operations and aiming to enhance system architectural and leadership skills.

Professional Experience

Westcliff University   September 2022 – Present

Peer Mentor / Teaching Assistant

- Oversee and organize student life activities in a diverse school community of about 5000 students from 104 countries.
- Establish 3 student clubs and train new mentors on mentoring techniques and effective communication strategies.
- Collaborate with professors in facilitating engaging learning activities, contributing to a median student grade of 80% across 13 courses.

Nestlē USA.   May 2023 – August 2023

Machine Learning Engineer

- Engineered and documented a Python package to streamline the Machine Learning workflow for Data Scientists, significantly reducing data onboarding time from 4 days to just 20 seconds for processing billions of records in a data lake.
- Created a DevOps pipeline for Continuous integration and deployment to the cloud infrastructure.

AXA. Contract   August 2021 – March 2022

Senior Backend Software Engineer

- Pioneered the development of a new core business application for Nigeria's largest health insurance company encompassing over 2000 providers and millions of enrollees.
- Collaborated with several backend engineers, frontend engineers, and business stakeholders to ensure efficient application performance, data provisioning, and conformity to business requirements.
- Architected and implemented 100+ asynchronous API endpoints for Provider and Claims management automation using .Net 5, SQL Server, and C#.

Africhange – Remote. Contract   October 2020 – May 2021

Backend Software Engineer

- Created 70 RESTful APIs for critical services such as authentication, user management, and real-time currency processing leading to a 1000% increase in cross-border transaction volume.
- Integrated AI-powered features for KYC, ensuring compliance with financial regulations across multiple jurisdictions.

Fidelity Bank PLC. Contract   October 2019 – March 2020

Software Developer

- Automated batch transaction posting for thousands of daily transactions using parallel and asynchronous computing, improving POS reconciliation time from 3 days to 30 minutes.

- Enhanced the security infrastructure by implementing OWASP standards and integrating the batch transaction system with the Single Sign-On system using .Net, Webforms, Entity Framework, Ajax, MS SQL, and Visual Basic .Net.

Tavia Technologies   **March 2018 – October 2019**
.Net Developer/SharePoint Support Engineer

- Created and managed intranet portals, quiz portals, voting portals with automatic scoring, and workflows for Mobile Telephone Network Nigeria (MTNN), Nigeria's largest telecommunications company, and Access Bank, Nigeria's largest bank.

Paylater (now Carbon) – Remote   **February 2019 – April 2019**
Data Science Intern

- Built and compared loan pre-delinquency models built with Random Forest and Neural Networks (Keras and SKLearn's MLP), finishing in the top 10% with a final accumulated score of 19 out of 20.

Aptech – Lagos, Nigeria. Contract   **October 2017 – November 2017**
Web Development Instructor

- Coached three classes of about twenty students each on Software Engineering concepts like HTML5, CSS3, and C#.

Education

Westcliff University   **May 2022 – August 2024**
M.Sc. in Computer Science AR/VR concentration (4.0 GPA)
Charisma University   **December 2016 – December 2017**
B.Sc. in Information Technology

Technical Skills

C#, .Net Core, JavaScript, NodeJS, Entity Framework Core, Entity Framework, Mediatr, Mapster, Fluent Validation, EPPlus, NodaTime, Automapper, Mailkit, TFS, .Net Framework 5, Unix Operating System, HTML, CSS, Bootstrap, SQL, SQL Query Profiling, Database-First Reverse Engineering, Postgres, Redis, Task-Based Asynchronous Programming, Parallel Computing, Object-Oriented Programming (OOP), Hangfire, REST API, Git, SharePoint, SharePoint Workflows, Express, Python, PANDAS, SK Learn, Machine Learning, Databricks, Apache Spark, Azure Data Lake, Azure Pipeline, Bash, Prompt engineering, Process Automation, Sphinx, Unity, Writing, Communicating With Diverse Audience, Collaboration, Strategic Planning, Mentoring, Leadership, Public Speaking, Project Management, Jira, Docker, AWS, PKI, AES, Data structures and algorithms, Java, Distributed Systems, Computer Architecture