Tim Udoma

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(LinkedIn Profile | GitHub Profile | Website | Certifications)

Professional Summary

Graduate student in the computer science program at Westcliff University with six years of experience in software engineering. Developed secure enterprise applications with a focus on scalability and accessibility for consumers. 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. Internship   **May 2023 – August 2023**

Machine Learning Engineer

- Engineered a Python package to streamline the Machine Learning workflow, 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 data platform.

AXA. Contract   **August 2021 – March 2022**

Senior Backend Software Engineer

- Pioneered the development of a new core business application for automating the health insurance process 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 multiple asynchronous backend endpoints for processes like Provider management and Claims management using .Net 5, SQL Server, and C#.

Africhange – Remote. Contract   **October 2020 – May 2021**

Backend Software Engineer

- Created 70 API endpoints for Africhange from scratch, to facilitate authentication with JWT, user profile management, referral reward, transactions, currency, and rate management using .Net Core and Amazon Web Services.
- Designed and implemented manual KYC feature for both Africhange and Cryptofully applications resulting in the verification of thousands of users.
- Integrated Africhange with multiple banking systems to enable international bank transfers. This led to a 1000% increase in transaction creation within a few months.
- Developed all backend API endpoints and integrated cloud services such as AWS S3 for image hosting using .Net Core, Entity Framework Core, PostgreSQL, and C#.

Fidelity Bank PLC. Contract   **October 2019 – March 2020**

Software Developer

- Automated batch posting for thousands of TTUM transactions using parallel and asynchronous computing; as well as implementing security updates to ensure conformity with OWASP security standards. These improved POS settlement reconciliation time from 3 days to 30 minutes.
- Developed the features to enable POS collections and integration with Single Sign-On system using .Net, Webforms, Entity Framework, Ajax, MS SQL, and Visual Basic.

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
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