Ndifreke Essien

Senior Cloud & DevOps Engineer
Azure |AWS | Kubernetes | Linux | Python | Automation

CONTACTS

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ndifrekematthew
Remote (Nigeria)

TECHNICAL SKILLS

Backend : PHP (Core, Laravel, CodeIgniter), JavaScript (NodeJS, Express, Puppeteer), Python (FastAPI)

Frontend : HTML, CSS, JavaScript, JQuery

Database : SQL, MySQL, MongoDB, noSQL, PostgreSQL

Scripting : Bash, PowerShell, Python

CI/CD : Jenkins, GitHub Actions

Containers/Orchestration : Docker, Kubernetes

Version Control : Git, GitHub

Artifact repository Managers : Nexus, Habor

Package Managers : Composer, NPM, Helm

Infrastructure As Code : Terraform, ARM

Monitoring : Prometheus, Grafana

Caching : Redis

Networking & Security : TCP/IP, Firewalls, VPNs, High-Availability Architectures, PKI Framework

Cloud Platforms

Azure

Virtual Machines, App Service, Kubernetes Service (AKS), Functions App, Virtual Network (VNet), Load Balancer, Application Gateway, Azure DevOps, Resource Manager (ARM), Blob Storage, SQL Database, Cosmos DB, Azure Monitor, Key Vault, Logic Apps, Azure Security Center

AWS

EC2, EKS, S3, RDS DynamoDB, VPC, Route 53, Elastic Load Balancing (ELB), CloudFormation, IAM, Amplify, SES, ECS, ECR, Elastic Cache, AWS Systems Manager, CloudFront

System Administration

OS

Linux (Debian, RedHat), Windows

Servers

- Web server (Apache, Nginx)
- Email Server (Postfix)
- SSH Server
- Database server (MySQL, Mongo DB, MSSQL, Pos)

Agentic AI

Orchestration

- Claude Code/Claude AI
- Open Claw

Bench markina

PROFESSIONAL SUMMARY

Senior Cloud & DevOps Engineer with **15+ years of experience in software engineering**, including **4+ years specializing in Cloud and DevOps**. Strong expertise in **Microsoft Azure, AWS, Kubernetes, Linux systems**, and **automation using Python and Bash**. Proven track record supporting **banking, payment, and enterprise platforms** with high availability, resilience, and security requirements. AI-native engineer with hands-on experience leveraging AI-assisted development and automation workflows using **OpenClaw** and **Claude Code** to accelerate engineering, infrastructure management, troubleshooting, and developer productivity. Currently working **fully remote**, collaborating effectively with distributed

PROFESSIONAL EXPERIENCE

Head of Platform Engineering

SORVEO (Remote)
July 2026 – Present

- **Architect** and **manage cloud-native infrastructure on AWS**, including Amazon ECS, Amazon ECR, Amazon RDS PostgreSQL, Amazon S3, AWS Amplify, IAM, VPC networking, and security services, Elastic Cache.
- **Design, implement, and maintain GitHub Actions CI/CD** pipelines for automated testing, container image builds, database migrations, and multi-environment deployments.
- **Containerize backend and edge services using Docker** and manage production deployments across cloud and edge environments.
- **Build and maintain highly available backend services** and supporting infrastructure for distributed AI and IoT workloads.
- **Design deployment strategies supporting phased rollouts, blue/green migrations**, rollback mechanisms, and zero-downtime production releases.
- **Deploy and manage MediaMTX for low-latency RTSP media streaming** between IP cameras, edge devices, and cloud services.
- **Design and operate MQTT-based messaging infrastructure** for secure communication between distributed edge devices and cloud services.
- **Implement infrastructure monitoring, application** health checks, centralized logging, and operational observability for cloud and edge services.
- **Automate infrastructure provisioning**, application deployment, configuration management, and operational workflows to improve engineering productivity and deployment consistency.
- **Drive platform reliability through capacity planning, failure recovery** strategies, infrastructure optimization, and proactive operational improvements.

PROJECTS

K8S Offline Image Deployment Tool
Bash script (Github)
Built a solution for managing container images in air-gapped Kubernetes environments.

PortTester
Bash script (Github)
Network diagnostic tool for testing TCP/UDP port availability automatedly

Kubernetes Cluster Setup Tool
Bash script (Github)
Utility for setting up and managing Kubernetes cluster on a bare metal server

vUX
JavaScript Library (Github)
A JavaScript library for building web UI components with tools for SPA development.

Zion Light Web
Open-Source PHP Framework (Github)
A PHP framework based on MRD (Model Route Display) for developing scalable web apps.

CLOUD & DEVOPS EXPERIENCE

Configured and deployed a bare-metal email server using Postfix with SPF, DKIM, and DMARC, ensuring 99% inbox deliverability for client communications.

Migrated a legacy shared hosting platform from cPanel to AWS EC2, resolving PHP 7.4 compatibility challenges caused by cPanel restrictions, and successfully restored multiple production sites including this Edura

Deployed and managed web applications on Azure App Service, leveraging built-in scaling, monitoring, and CI/CD integrations for efficient delivery and performance.

Designed and led the migration of Sorveo's AI platform from a distributed camera-based recognition architecture to a centralized NVIDIA Jetson edge-computing platform, consolidating facial recognition, activity detection, and data ingestion into a single, scalable edge-AI pipeline with phased, zero-downtime production rollouts.

Architected and operated AWS cloud infrastructure supporting a multi-tenant SaaS platform using Amazon ECS, ECR, RDS PostgreSQL, S3, Amplify, and MediaMTX, while implementing GitHub Actions CI/CD pipelines for automated builds, testing, database migrations, and production deployments.

Designed and implemented a secure edge-device platform enabling authenticated communication between Jetson appliances and cloud services using MQTT, JWT-based APIs, long-lived device credentials, and secure NAT traversal for distributed on-premise deployments.

Lead System Integrator
ZONE NETWORK (Remote)
November 2024 – June 2026

- **Lead incident triage** and **root-cause analysis sessions**, collaborating with System Integrators and engineering teams to resolve complex production issues and improve system reliability.
- **Design**, **operate**, and **optimize production-grade Kubernetes** clusters supporting high-availability, containerized microservices.
- Develop and maintain infrastructure automation using **Python** and **Bash**, reducing manual operational tasks by approximately 40% and improving deployment consistency.
- **Lead incident triage** and **root-cause analysis sessions**, collaborating with System Integrators and engineering teams to resolve complex production issues and improve system reliability.
- **Design**, **operate**, and optimize **production-grade Kubernetes** clusters supporting high-availability, containerized microservices.
- Develop and maintain infrastructure automation using **Python** and **Bash**, reducing manual operational tasks by approximately 40% and improving deployment consistency.
- Lead enterprise-grade system integrations involving I**SO 8583 messaging**, Hardware Security Modules (HSMs), and secure financial transaction platforms.
- **Administer, harden, and optimize Linux servers** to ensure security compliance, performance tuning, and maximum uptime.
- **Collaborate cross-functionally in a fully remote**, distributed environment to support incident response, change management, and platform stability.
- Implement and manage observability solutions using **Prometheus** and **Grafana**, creating dashboards and alerts for proactive monitoring of mission-critical applications.

System Integrator
ZONE NETWORK (Remote)
August 2023 – October 2024

- Deployed and managed over 30 blockchain microservices on Linux servers using **Kubernetes**, enhancing system scalability by 30%.
- Developed and maintained **Bash scripts** that automated 90% of service setups and reduced network troubleshooting time by 40%, leading to faster issue resolution.
- Set up and installed essential tools on **Linux** and **Windows** servers, while maintaining **Docker** and **Kubernetes** infrastructure to ensure optimal performance.
- Diagnosed and troubleshoot hardware and software issues, documented resolutions, and prioritized critical problems based on impact.
- Resolved technical issues and integrated new services with the bank's CBA/FEP/HSM, leveraging knowledge of ISO 8583 to streamline payment processing systems.

Built and optimized an AI-powered facial recognition platform using InsightFace (SCRFD + ArcFace), ONNX Runtime, PostgreSQL pgvector, and approximate nearest-neighbor search, enabling scalable biometric matching across multiple tenants while maintaining recognition parity between cloud and edge environments.

Technical Lead (Azure)

TEK EXPERTS, LAGOS
October 2022 – September 2023

- Provided **Azure Cloud engineering and DevOps leadership** for enterprise customers across multiple industries
- Supported production Azure environments, troubleshooting complex infrastructure and performance issues
- Implemented **automation scripts** and cloud best practices to improve deployment consistency and reliability
- Mentored junior engineers and served as an escalation point for critical cloud and platform incidents
- Worked closely with global teams to deliver solutions aligned with **enterprise SLA and compliance requirements**

Azure Senior Technical Support Engineer

TEK EXPERTS, VICTORIA ISLAND, LAGOS
October 2021 – October 2022

- Provided global support for 50+ developers and cloud administrators on **Azure app services**, improving deployment efficiency by 40%.
- Debugged and resolved deployment issues for over 200 deployments with **ARM**, **Git Deployment**, and **Continuous Deployment**, decreasing downtime by 25%.
- Assisted over 150 customers in resolving PHP application issues (WordPress, Laravel, CodeIgniter) on **Azure App Service**, leading to a 30% increase in customer retention.

Full Stack PHP Developer

QUEST2REALITY, REMOTE
July 2020 – September 2021

- Contributed to the design and development of a school management software (Link) covering student enrollment, attendance, grading, and staff management.
- Built and optimized modules for reporting to improve usability and system performance.
- Implemented database structures and backend logic, ensuring data consistency and security.

EARLIER ENGINEERING EXPERIENCE

Full Stack PHP Developer

Various Organizations
2012 – 2019

- Software and systems engineering roles spanning backend development, system integration, and infrastructure support
- Built and supported web-based and enterprise systems prior to specializing in **Cloud and DevOps engineering**

WORK AUTHORIZATION & AVAILABILITY

- Open to **global remote opportunities**
- Comfortable working across time zones
- Available for full-time or long-term contract roles

EDUCATION

B.eng. Computer Engineering
University of Uyo, Nigeria
2012 - 2018