

Samuel Peter

Uyo, Akwa Ibom State, Nigeria | samuel.peter@iu-study.org | +234 8028287784 | <https://www.linkedin.com/in/samuel-peter-5117223b> | <https://github.com/sampeter-akan>

PROFESSIONAL SUMMARY

Senior DevOps and reliability engineer with 19+ years of experience operating national grid and critical infrastructure systems at scale. Proven track record in CI/CD pipeline automation, IaC, EMS/SCADA observability, incident response, and SLA-driven service delivery — with initiatives that sustained 99.9%+ uptime and reduced outage impact by ~30%. Combines deep operational discipline with hands-on cloud engineering in AWS, Kubernetes, and Terraform. Currently pursuing an MSc in DevOps and Cloud Computing.

EDUCATION

IU International University of Applied Sciences

Germany

MSc DevOps and Cloud Computing. GPA: 80.5% (Distinction Level).

Present

Relevant Coursework: DevOps Engineering (96%), Advanced Research Methods (90%), Project: Cloud Computing (84%)

University of Derby

UK

BSc (Hons) Computing and IT. First Class Honours.

2020

Pearson RDI

UK

BTEC Level 5 HND Diploma in Computing and Systems Development (QCF). Pass.

Oct 2014

EXPERIENCE

Principal Manager, Grid System Operations

Jul 2025 – Present

Transmission Company of Nigeria

- Maintain 99.9%+ availability for national grid services; lead monitoring, incident response, and change governance across critical infrastructure.
- Implement IaC and automation practices to reduce manual interventions and standardize infrastructure deployments.
- Mentor teams on reliability engineering principles and runbook-driven incident response.

Senior Manager, Grid System Operations

Jul 2021 – Jun 2025

Transmission Company of Nigeria

- Restored services within SLAs during critical grid outages; led root cause analysis and corrective action that reduced outage impact by ~30%.
- Maintained continuous EMS/SCADA observability and improved alert tuning to reduce false positives across grid monitoring systems.
- Trained 15+ operators and authored operational runbooks adopted for audits and emergency drills.

Manager, Grid System Operations

Jul 2018 – Jun 2021

Transmission Company of Nigeria

- Directed daily grid operations, introduced monitoring and alerting pipeline improvements, and authored operational documentation for cross-team use.

Assistant Manager, Grid System Operator

Jun 2011 – Jul 2015

Transmission Company of Nigeria

- Coordinated control-room activities, supported incident handling workflows, and contributed to monitoring tool rollouts.

Officer I, Grid Control Operator

Jun 2007 – Jul 2011

Transmission Company of Nigeria

- Executed switching procedures, performed system health monitoring, and maintained audit logging.

PROJECTS

Movies API <https://github.com/sampeter-akan/movies-api>

TypeScript, Node.js, OpenAPI, k6, GitHub Actions

- Built contract-first microservices with automated CI/CD pipelines and performance baselining; maintained target response times below 100ms for key endpoints.

AWS ML Recommender Feed Deployment

https://github.com/sampeter-akan/homestaygrid_ml_recommender_feed

AWS, FastAPI, Docker, ECR, Elastic Beanstalk

- Built and deployed a cloud-based ML recommender prototype on AWS, demonstrating containerized API delivery, cloud hosting, and deployment workflows.

Credit Loan Calculator <https://github.com/sampeter-akan/credit-loan-calculator>

Java, Jenkins, Selenium, JUnit

- Implemented end-to-end pipeline automation and quality gates; integrated Dependabot and structured logging.

Wi-Fi Security Adoption Study https://github.com/sampeter-akan/empirical_research_proposal_paper

Python, Scapy

- Ran controlled testbed experiments across congestion, roaming, and WPA2 vs WPA3 scenarios.
- Produced a dataset, research PDF, and deployment-priority checklist for hotspot operators.

SKILLS

DevOps and Automation: CI/CD, Jenkins, GitHub Actions, IaC, Terraform, build/test automation, release engineering

Cloud and Infrastructure: AWS, EKS/Kubernetes, Docker, Elastic Beanstalk, ECR, hybrid cloud, architecture

Observability and Reliability: EMS/SCADA, monitoring, alerting, structured logging, incident management, SLA management

Testing and Quality: k6, Selenium, JUnit, unit testing, integration testing, performance testing, test automation

Languages and Frameworks: Python, PowerShell, Java, Node.js, TypeScript, FastAPI, OpenAPI

Security and Compliance: RBAC, NERC compliance, operational security, access control

LANGUAGES

- English: C1
- Efik/Ibibio: Native