

David Kelechi Iweala

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F-1 visa | CPT-eligible January 2027 | No H-1B sponsorship required to start

PROFESSIONAL SUMMARY

Software and infrastructure engineer with 3+ years of production experience in regulated financial environments, combining strong engineering fundamentals with disciplined use of AI-assisted development tooling. Delivered a 34-point uptime improvement (65% to 99.2%) at Zenith Bank PLC through CI/CD quality gates, observability instrumentation, and Python/Bash automation. Practiced daily use of GitHub Copilot and Claude for code generation, test drafting, and documentation with consistent human validation before production. Experience delivering in Agile squads with cross-functional product, design, and QA teams. M.Sc. Computer Science, University of Louisville.

TECHNICAL SKILLS

Languages & Frameworks: Python, Bash/Shell, JavaScript, SQL, Django, REST API design

AI-Augmented Development: GitHub Copilot, Claude code generation, test drafting, documentation; structured prompting, output validation, Responsible AI practices

DevSecOps & CI/CD: GitHub Actions, Jenkins, GitLab CI pipeline design, release automation, repeatable and auditable builds

Observability & SRE: Dynatrace, Grafana, Prometheus, CloudWatch logs, metrics, traces, alerting, MTTR reduction, incident response

Cloud & Infrastructure: AWS (EC2, S3, RDS, IAM, VPC, CloudWatch, Lambda), Kubernetes, Docker, Terraform IaC

Security & Compliance: IAM least-privilege design, SSL/TLS lifecycle, security group hardening, secure-by-design practices

Agile & Collaboration: Scrum, sprint planning, estimation, cross-functional squad delivery, runbook authoring, stakeholder communication

Tools: Git, Jira, VS Code, IntelliJ, Splunk, Red Hat Linux, Ubuntu

PROFESSIONAL EXPERIENCE

DevOps / Software Engineer

Jul 2023 – Jan 2026

Zenith Bank PLC | Lagos, Nigeria (Hybrid)

- Drove uptime from ~65% to 99.2% on mobile banking channels serving millions of customers by migrating infrastructure to Linux, establishing CI/CD pipelines with automated quality gates, and implementing Dynatrace and Grafana observability zero major customer-facing incidents during rollout.
- Instrumented production systems for logs, metrics, and alerting; defined performance baselines and alert thresholds; led root-cause analysis and post-mortem documentation to drive systemic fixes over symptomatic patches.
- Built Python and Bash automation scripts for deployment, maintenance, and monitoring workflows; applied AI coding assistants (GitHub Copilot, Claude) to accelerate script generation and test drafting validating all AI outputs before production use.
- Piloted Terraform IaC to automate infrastructure provisioning; authored internal runbooks, troubleshooting guides, and technical documentation to improve team consistency and knowledge transfer.

- Collaborated across infrastructure, application, and operations teams in Agile delivery cycles; mentored junior engineers on DevSecOps practices, incident management standards, and disciplined use of AI tooling.

Software Engineer (DevOps & Full-Stack)

Jan 2022 – Feb 2023

Tramango | Lagos, Nigeria (Hybrid)

- Built and shipped product features end-to-end using Django and WordPress in Agile sprints; collaborated directly with product owners and designers to translate user stories into working software.
- Designed and maintained AWS cloud infrastructure (EC2, S3, RDS) across dev, staging, and production; reduced deployment time ~40% by automating rollouts using CI/CD pipelines and Bash scripting.
- Implemented automated testing and QA checks within deployment pipelines; contributed to exploratory testing and defect triage in a resource-constrained startup environment.

Graduate Trainee — Technology

May 2023 – Jul 2023

Meristem Securities Ltd | Lagos, Nigeria (On-site)

- Contributed to system evaluations, process improvement initiatives, and technical documentation in a regulated financial services environment; developed stakeholder communication and technical reporting skills.

PERSONAL PROJECTS**Commute — Matchmaking Carpooling Platform**

- Building a subscription carpooling product solo Python backend, REST APIs, AWS infrastructure. Using AI coding assistants throughout with disciplined output validation. Prototype live with landing page.

Cultiva — AI Precision Agriculture Platform

- Built AI-powered crop advisory platform integrating ML recommendations and IoT sensor data for African smallholder farmers. Practical experience designing for AI reliability and responsible output validation.

EDUCATION**M.Sc. Computer Science**

Expected May 2027

University of Louisville, Louisville, KY

B.Eng. Computer Engineering

Sep 2021

Covenant University, Ota, Nigeria

CERTIFICATIONS & MEMBERSHIPS

Google IT Support Professional Certificate — Coursera / Google

IBM Cloud Computing — Coursera / IBM

Association for Computing Machinery (ACM) Member