

Samson Olusegun

Software Engineer

Experience Summary: Software Engineer specializing in cloud architecture, CI/CD automation, and production systems at scale. Expert in AWS, GCP, Kubernetes, Terraform, and building robust deployment pipelines. Experience owning infrastructure for payment systems and developer platforms. Strong foundation in Rust, TypeScript, and Python with focus on microservices, observability, and cost optimization.

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TECHNICAL EXPERIENCE

Mavapay Digital Solutions, US – Backend & Infrastructure Engineer (Remote) Dec 2024 – Present

- Own and manage complete infrastructure and deployment pipelines on GCP, architecting scalable backend systems ensuring 99.9% uptime for payment processing.
- Design, build, and maintain end-to-end CI/CD pipelines from development to production, automating deployment workflows and improving release reliability.
- Architect and provision GCP infrastructure (Compute Engine, Cloud SQL, Cloud Storage, Load Balancers, VPCs) using infrastructure-as-code practices.
- Implement comprehensive monitoring, alerting, and incident response workflows, taking on-call responsibilities and reducing MTTR by 30%.
- Optimize cloud infrastructure costs and performance through resource right-sizing, caching strategies, and database query optimization.
- Collaborate with CTO to design secure, high-performance backend architecture and product roadmaps.
- Build backend systems on the Bitcoin protocol, enabling seamless transaction settlement.

Chaincode Labs, US – Open Source Developer (Remote) Mar 2023 – Dec 2024

- Owned complete infrastructure and deployment pipelines for Bitcoin Dev Project platform, managing cloud resources, databases, and improving overall performance by 40%.
- Architected, built, and maintained end-to-end CI/CD pipelines, deployment strategies, and release management processes.
- Designed and implemented a transcript review system for knowledge-based applications, increasing engagement and usability for Bitcoin developers.
- Integrated Lightning Network features (L402, sat rewards) to enhance micropayment processing.

Kernel Systems, Nigeria – Technical Lead (Remote, Part-Time) Oct 2022 – Present

- Led backend architecture design and code reviews, ensuring engineering best practices and maintainability.
- Delivered Bitcoin-powered payroll infrastructure supporting multi-currency settlements with microservices architecture.
- Designed and automated deployment pipelines with CI/CD workflows to streamline release cycles and reduce operational overhead.
- Managed cloud infrastructure for production systems.

Qala Dev, Nigeria – Bitcoin Protocol Developer Intern (Remote) Jan 2021 – Jul 2021

- Researched Bitcoin and Lightning protocols; contributed to open-source Bitcoin development projects.
- Implemented Bitcoin testnet experiments and supported hackathons to improve Lightning adoption.

Adekunle Ajasin University, Nigeria – Web Developer Jan 2021 – Jun 2021

- Developed student portal web applications to automated student request across departments.
- Conducted QA testing and bug resolution, reducing student service downtime.
- Collaborated closely with the lead web developer, ensuring rigorous testing and quality assurance of web applications.

OTHER EXPERIENCE

Propel, Germany – Technical Jury (Remote) Nov 2022 – Jan 2024

- Conducted 200+ technical interviews, improving candidate quality scores by 15% for client acceptance.
- Standardized evaluation frameworks, cutting review cycles by 20%.

Tech4Dev, Nigeria – Frontend Development Consultant (Contract) Aug 2022 – Jun 2023

- Designed and delivered a modern frontend engineering curriculum for 200+ trainees.
- Created training resources and assessments that boosted trainee graduation rates.

EDUCATION

Adekunle Ajasin University **Bachelor of Science in Economics**
December 2015 - April 2021

SKILLS

Cloud Platforms	AWS / GCP / Azure / Heroku / Railway / Fly
Infrastructure & DevOps	Terraform / Kubernetes / Docker / Helm / CI/CD (GitHub Actions, TravisCI) / Ansible / Pulumi
Monitoring & Observability	CloudWatch / Prometheus / Grafana / DataDog / PagerDuty / Logging & Alerting
Database	PostgreSQL / MongoDB / Firestore / DuckDB
Programming	TypeScript / JavaScript / Python / Rust / Zig / Node.js / Ruby / Bitcoin Script
Networking & Security	VPNs / IAM / SOC II Compliance / Network Architecture / Load Balancing
Backend Frameworks & Libraries	Node.js / Express / Actix / Axum
Architecture	Microservices / Event-Driven Architecture / Fault Tolerance / High Availability / Disaster Recovery

INTEREST

IT / Data / Bitcoin / Movies / Traveling

LANGUAGES

English / Yoruba / French (Beginner)

PROJECTS

HXCKR - Bitcoin Education Platform (Org Founder)

[Github](#)

Architected and built complete microservices platform for open technical education (piloted with technical Bitcoin curriculum at Chaincode) using Kubernetes, Rust, TypeScript, Nix, and Docker. Designed and deployed K8s infrastructure, automated test runners, and git-based workflows. Built core LMS backend (Rust), frontend, automated code evaluation system, and CI/CD pipelines. Managed multi-environment deployments (staging/prod) with IaC, container orchestration, and observability tooling across 5+ repositories.

NodeGaze - Lightning Network Observability Platform

[Github](#)

Architected and built event based observability platform for Lightning Network nodes using Rust (Axum), SQLite, and Next.js. Implemented real-time monitoring, webhook integration, Discord notifications, and RESTful APIs. Designed database schema and migration system with SQLx.

Remote Code Execution using Nix

[Github](#)

Experimental system for remote code execution using Nix for reproducible, isolated environments. Built with TypeScript/Node.js and Bun runtime, providing a lightweight alternative to Docker-based solutions with improved memory efficiency.

Docker TCP Connector

[Github](#)

Rust-based networking utility enabling TCP communication between Docker containers across different networks, facilitating inter-container communication for distributed systems and container log monitoring.

CERTIFICATE

Cloud Developer Nanodegree - Udacity