

MacBobby Chibuzor

Senior Software Engineer

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[GitHub](#) [LinkedIn](#) [Blog](#)

I work at the intersection of blockchain, fintech, and DevOps. 7+ years building production DeFi infrastructure, cloud-native platforms, and cost-driven automation – from on-chain token economics bots and multi-chain settlement systems to Kubernetes platforms serving multi-tenant SaaS. Fluent across Python, Go, TypeScript, and Rust, with deep AWS/GCP, Terraform, and Kubernetes experience.

Experience

Support Engineer
[WeWire](#)

Jun 2026 - Present

Banking Partner Integration

- Led end-to-end integration of a new banking partner (FirstBank Ghana) for GHS virtual account issuance, replacing the incumbent provider with zero disruption; shipped across 4 PRs with staged rollout.
- Built a polling-based deposit reconciliation service for a partner with no webhook support, and resolved a multi-stage TLS/certificate incident (expired cert, SAN mismatch, untrusted CA) blocking go-live.
- Diagnosed and resolved 5+ live integration defects (idempotency-key collisions, data-shape bugs, undocumented required fields) through direct partner API testing.

Production Incident Response

- Root-caused a production payout bug (floating-point balance comparison causing false insufficient-balance failures) in a NestJS/TypeScript backend; shipped fix with regression tests.
- Diagnosed customer-impacting payment incidents via AWS CloudWatch request-level tracing, including a misrouted £200 GBP payment resolved with a third-party banking provider.
- Traced a cross-currency KYB verification bug and a stalled third-party KYC check to their true root causes, avoiding incorrect escalation.

Platform & Compliance

- Extended a public REST API with new KYC fields and shipped a fix unblocking USD virtual account issuance for sub-customers same-day.
- Currently building a SEC Ghana VAMSS-compliant surveillance endpoint, a compulsory regulatory requirement for Ghanaian fintechs.

Support

- Serve as support engineer for API clients: onboarding calls, Intercom triage, staging-to-production unblocking.

[TypeScript](#) [NestJS](#) [AWS CloudWatch](#) [REST APIs](#) [class-validator](#) [Sumsb \(KYC/KYB\)](#) [OpenPayd](#) [Banking-as-a-Service](#) [CI/CD](#)

DevOps / Infrastructure Engineer (Contract)
[Rocksteady Technology](#)

Mar 2026 - Aug 2026

Performance & Reliability

- Led the production rollout of a reports-service architecture overhaul, replacing a per-report Kubernetes Job execution model with a persistent worker pool (Java/Spring, Redis-backed), cutting report generation time from ~10 minutes to ~8 seconds; resolved database migration conflicts and CI pipeline blockers that were gating the release.
- Independently diagnosed and resolved a cascading multi-system outage on a customer-facing demo environment (masked DB security misconfig, ~3-month/1,600+ commit deployment drift, frontend build defect, Kubernetes ingress misrouting, broken legacy-to-modern data sync), unblocking a time-critical sales campaign the same day.
- Recovered 34,000+ records of inaccessible operational data by tracing a legacy PostgreSQL path, and designed a live two-way Change-Data-Capture pipeline after flagging a data-consistency risk.

Infrastructure Cost Reduction

- Drove consolidation of QA/nonprod test environments from 8 separate environments down to a single shared Kubernetes (KIND) host, targeting the ~\$19k/month nonprod AWS spend.
- Built supporting infrastructure end-to-end: Terraform-provisioned EC2/KIND host, SSM-based remote ops, IAM wiring for ECR/Secrets Manager, ingress-nginx + VPN routing, and an S3-staged Helm render/apply pipeline.
- Wired the new shared environment into existing Prometheus/Loki/Grafana observability and shipped a dedicated environment-health dashboard.

Platform & Multi-Tenant Operations

- Migrated tenant frontends to a CloudFront-backed CDN architecture (external-dns + version-cookie based routing) across dozens of production tenants.
- Rebuilt Slack alerting across prod and nonprod Alertmanager, consolidating fragmented notification routing into a single on-call channel.
- Supported UAT02, the platform QA uses to validate new service versions before tenant rollout.

Tooling, Automation & On-Call

→Built reusable operator CLI tools (tenant feature-flag management, tenant access provisioning, legacy-CDC enrollment), replacing one-off manual SQL fixes with idempotent, re-runnable scripts.

→Served as weekly on-call engineer (24-hour Thursday rotation), triaging and resolving production incidents across the platform.

Python TypeScript Bash Terraform AWS Kubernetes Helm Docker ArgoCD Jenkins GitHub Actions PostgreSQL MongoDB Redis RabbitMQ Elasticsearch Prometheus Grafana Loki Alertmanager

Blockchain Engineer (Contract) Nov 2025 - Dec 2025
Jeroid Pay

WhatsApp-Native Crypto Trading Platform

→Built production-grade DeFi infrastructure integrating multi-chain settlement (Solana, Base, Polygon) with fiat on/off-ramps and KYC verification via Smile ID.

→Engineered event-driven architecture with PostgreSQL state management, async message routing via Twilio webhooks, and AI-powered intent classification using Groq LLM.

→Architected stateful conversation flows supporting concurrent multi-user transactions with atomic settlement guarantees across multiple blockchain networks.

Rust PostgreSQL Solana Base Polygon Fireblocks Twilio Docker

Senior Infrastructure Engineer Oct 2024 - Jul 2025
Stride Labs
stride.zone

Buyback & Burn Bot – Token Economics Automation

→Built automated STRD buyback and burn system processing auctions every 10 minutes via Kubernetes CronJob, burning ~5.3M STRD yearly.

→Implemented optimal swap routing algorithm integrating Osmosis Swap Router API with multi-pool routes and slippage protection.

→Engineered multi-chain architecture handling IBC transfers with Skip API routing, PFM detection, and 2-hop fallback for non-PFM chains.

Stride DEX Subgraph – Uniswap V3 Analytics

→Adapted Uniswap V3 subgraph for Stride Swap DEX, implementing concentrated liquidity visualization with dynamic tick range histograms.

→Built complete testing infrastructure with Matchstick framework, achieving full unit + integration test coverage on localnet.

→Deployed to Goldsky, saving \$3,600/month vs The Graph Protocol hosted service.

stBGT Points Program Indexer – Berachain Integration

→Architected production-grade FastAPI service for real-time metrics, user analytics, and high-throughput API endpoints on Berachain.

→Built data pipeline with efficient caching strategies, automated daily indexing jobs, and PostgreSQL backends for high-volume transaction processing.

Production Trading Bots – Berachain Ecosystem

→Developed P0L Swapper integrating Ooga Booga DEX aggregator for token-to-stBGT conversions (6-hour K8s CronJob cadence).

→Built boost cycle operator for validator rebalancing with Merkle proof verification and slashbot for real-time validator slash detection.

Infrastructure & Cost Optimization

→Reduced GCP costs ~\$5k/month by consolidating 16 microservices into 8 deployable services (50% reduction).

→Migrated TEE bot database from JSON files to PostgreSQL, built Kubernetes orchestration with Helm charts.

→Modernized protocol testing by converting legacy shell scripts to TypeScript with Cosmos-native client SDKs.

Python/FastAPI GoLang Solidity TypeScript PostgreSQL Docker Kubernetes GraphQL The Graph Goldsky GCP

Lead Software Engineer Jun 2023 - Sep 2024
Cloudax Holdings LTD

Platform Engineering

→Architected and deployed cloud infrastructure on GCP using Terraform, building IaC pipelines from scratch for a greenfield crypto product.

→Built internal tooling and automation scripts in Bash and Python to streamline developer workflows and reduce manual operations.

→Set up monitoring and alerting systems with Prometheus and Grafana, giving engineers visibility into system health and anomalous behavior.

Product Development

→Led a team of engineers building crypto-native applications: blockchain oracles, banking integrations, and P2P trading – from scratch to first 2000 users.

→Built critical backend APIs and smart contracts for on-chain functionality.

Terraform GCP Bash Python TypeScript PostgreSQL Prometheus Grafana Solidity

Blockchain Researcher Dec 2022 - Jun 2023
Halborn Security
halborn.com

→Researched blockchain technologies specializing in ZKPs and L2 scalability solutions.

- Developed smart contract security tooling and zkSNARKs implementations for proof-of-concept projects.
- Authored technical content reaching ~2.1k monthly developer readers.

GoLang Solidity Rust Python

Software Engineer

Dec 2021 - Jan 2023

I0D Cloud Technologies

- Built cloud infrastructure and automation for enterprise clients including Cisco, Logz.io, and Zoho using Terraform and Docker.
- Conducted AWS ECS vs. EKS performance benchmark tests, providing data-driven recommendations for container orchestration decisions.
- Designed monitoring and observability stacks with Prometheus, Grafana, and OpenTelemetry for production workloads.
- Authored 15 technical guides on Kubernetes, observability, CI/CD, and distributed systems – used for client onboarding and internal training.
- Achieved 73% higher delivery rate compared to peers through automation-first approach to repetitive tasks.

GoLang Python Docker Kubernetes AWS Prometheus Grafana OpenTelemetry

Software Engineer

Mar 2019 - Nov 2021

ReachExt K.K. (EJable.com)

Backend Development & Infrastructure

- Developed and maintained backend services using Python (Flask) and Go for EJable.com tech content platform.
- Built RESTful APIs and content management systems with efficient database queries and caching strategies.
- Managed AWS infrastructure (EC2, Lambda, S3) with CI/CD pipelines and automated deployment workflows.

Technical Leadership & Content

- Trained and mentored junior engineers on backend development, API design, and cloud infrastructure.
- Authored 12+ comprehensive technical articles on cloud computing, security, blockchain, and DevOps.

Python Flask GoLang PostgreSQL AWS (EC2, Lambda, S3) Docker Redis

Rust Engineer & DAO Member

2023 - Present

DAO-DAO

daodao.zone

- Contributed to dao-dao contracts in Rust, used by all DAOs in the Interchain ecosystem.
- Added active threshold functionality to CW4 voting module and NFT ID address querying.
- Improved and wrote tests for CosmWasm DAO governor/membership voting module.

Rust CosmWasm Cosmos SDK

Technical Skills

Languages

Python (6+ yrs) GoLang (5+ yrs) TypeScript (6+ yrs) Rust (4+ yrs) Solidity (5+ yrs)

Databases

PostgreSQL Redis MongoDB SQLite

Cloud & DevOps

AWS (EC2, EKS, IAM, S3, RDS, CloudFront, Route53, SSM, Secrets Manager, ECR, KMS) GCP Terraform Docker Kubernetes Helm CI/CD (GitHub Actions, Jenkins, ArgoCD) Prometheus Grafana Loki Alertmanager

Blockchain

Ethereum Solana Cosmos/CosmWasm The Graph Goldsky Foundry Hardhat

Education

B.Eng. Mechatronics Engineering

Federal University of Abeokuta

Topics in Mathematics with Applications in Finance

MIT OpenCourseWare

Building Cloud Computing Solutions at Scale

Duke University (Coursera)