Emmanuel Christopher
Web3 DevOps/Data Engineer

krissemmy17@gmail.com • [Linkedin Profile link]() • [GitHub Profile link]() • [Portfolio]()

PROFESSIONAL SUMMARY

Web3 DevOps & Data Engineer experienced in building on-chain data pipelines, RPC analytics systems, and cloud-native DevOps automation. Operated 15+ blockchain nodes and infrastructure in production, cut RPC p90 from ~2s to <250ms, and reduced AWS spend by 45% without sacrificing uptime. I build reliable systems at the intersection of data, DevOps, and blockchain infrastructure.

CAREER HIGHLIGHTS

- **Solo-operated 15+ blockchain nodes** in production (full + archive)
- **Latency:** RPC p90 from ~**2s** to **<250ms**; significant p99 reductions via pooling, timeouts, kernel/net tuning.
- **Cost: 45% AWS bill reduction ($25k to $13k/mo)** while improving uptime and reliability.
- **Delivery:** CI/CD reduced deploy time from **10 to 2 min**; improved MTTR via dashboards & alerts.
- Built **[Krainode]()**, an open-source JSON-RPC playground, used by multichain devs for debugging.

PROFESSIONAL EXPERIENCE

KRAINODE   REMOTE
Founder + DevOps & Data Engineer   Sep 2025 - Present

- Built an Open-source browser-based RPC playground with built-in telemetry.
- Implemented Python/SQL ETL to normalize RPC responses and feed internal dashboards.
- Created automated validation comparing provider results vs chain truth.
- Added chain-specific RPC examples (blocks/logs/calls) to improve onboarding for developers.
- Reached 200+ monthly users via Product Hunt & Delta Residency exposure.

GLUEX PROTOCOL (FORMERLY OTEX)   Remote
Founding DevOps/Data Engineer   Mar 2024 - Aug 2025

Worked across DevOps, NodeOps, and Data Engineering, powering intent-based routing & MEV-free simulations.

DevOps / Infra

- Cut AWS spend by ~45% through autoscaling, pruning unused compute, and reducing data-transfer overhead.
- Reduced RPC p95 latency from ~2s to <250ms using better routing, caching, and provider management.
- Implemented a full observability stack: Prometheus, Grafana, Loki, and OpenTelemetry for services + nodes.
- Automated CI/CD for indexers, APIs, and internal tools using GitHub Actions + Terraform + Terragrunt.
- Containerized services (API, indexers, simulation tools) for consistent deployments across environments.
- Built Python/Bash health checks and diagnostic scripts, improving reliability and reducing MTTR.

Data Engineering

- Designed and maintained indexing pipelines for tokens, token_pairs, pools, and connector graphs (Postgres + DynamoDB).
- Built ETL logic for simulation inputs, enabling fast reads and accurate routing decisions.
- Created data-validation frameworks comparing DynamoDB entries vs RDS tables to catch mismatches before production.
- Built SQL models + Python scripts for sub-second lookups during routing + simulation pipelines.

Blockchain / NodeOps

- Operated nodes across Ethereum, Arbitrum, Base, BNB, Berachain, Gnosis, Optimism, Unichain, Starknet, Tempo and Hyperevm for indexing + simulation reliability.
- Ran custom RPC monitoring for block lag, sync issues, bad peers, and anomaly detection.

EVERMIGHT   **Toronto, Canada(Remote)**

Cloud Security Engineer Part-Time   **Jan 2024 - Mar 2024**
- Hardened hosted apps (WordPress) and cloud posture; closed vulnerabilities across 5 deployments, improving uptime and risk profile.

CHAIN CO-OP   **Lagos, Nigeria(Remote)**

Freelance Data Engineer   **Jul 2023 - Dec 2023**
- Automated ETL/ELT on GCP (GCS/BigQuery/PubSub); consolidated 7+ sources, reduced manual ops by **70%**, storage cost −**25%**.

HAMOYE HQ   **Hamilton, Bermuda**

Data Engineer/MLOps Intern   **May 2023 - Sep 2023**
- Python/SQL pipelines; containerized ML workloads on Docker/K8s; supported reproducible inference and faster iteration.

PROJECTS AND ARTICLES

- **KraiNode:** Open-source browser-based blockchain JSON-RPC playground. *Repo Live Link*
- **Debugging Blockchain Nodes**
- **Starknet Mainnet full node article**
- **Tempo Testnet RPC Node Article**
- **Hosting Fizzy on Coolify**
- **Onchain Portfolio Tracker:** enable u to see the total(sum of) holdings of ur crypto from all ur wallets. *Repo Live Link*
- **EVM RPC Benchmark:** A benchmarking analytics tool to test the performance of an RPC endpoint. *Repo Live Link*
- **Aave V3 Borrow-APY Tracker:** Built a script that queries Aave v3 subgraphs and protocol APIs to compute real-time borrow rates per token, enabling DeFi teams to benchmark lending yields across markets. **Repo Live link**
- **Hyperevm-node-k8s (Solo):** Reproducible HyperEVM node deployment patterns. *Repo*
- **Monitoring-Grafana-k8s:** Monitoring Infra with Open source tools using Kubernetes. *Repo*

EDUCATION

ALTSCHOOL AFRICA   **Lagos, Nigeria**

Diploma in Data Engineering   **Top-performing Graduate**

TECHNICAL SKILLS

- **Languages:** Python, SQL, Bash, Rust (tooling), Typescript
- **Data:** Postgres, ClickHouse, DynamoDB, dlt ETL, Pandas, MySQL, FastAPI, Airflow, dbt
- **DevOps:** Docker, GitHub Actions, Terraform, Terragrunt, Caddy, Nginx, Kubernetes, Helm, IAM security
- **Observability:** Prometheus, Loki, Grafana, OTEL
- **Cloud:** AWS (EC2, VPC, RDS, Lambda, DynamoDB, Kinesis, IAM, GA, ELB, CloudWatch), GCP, Hetzner
- **Blockchain:** RPC, JSON-RPC, Ethereum nodes, Reth/Geth/Nethermind/op-geth/nitro/Lighthouse, Pathfinder, MEV-aware simulation, on-chain indexing
- **Other:** Linux, CORS debugging, API performance analysis
- **OSS Contributor and Hackathon:** CowProtocol, Tempo, DefiLlama, EVMtools, Sensei-Node, Constellation: A Chainlink Hackathon, Soonami.io AI Event
- **Projects and Certifications:** Krainode, Hyperevm-node-k8s, Rust-web-status, Polygon-Finance-ELT-Pipeline, Hackerank, Prediction of Chronic kidney disease, NHFR-Web-Scraping-And-Analysis, Datacamp Python Importing data, Datacamp SQL Queries