FRED GITONGA

Senior Backend Engineer (Go) | Distributed Systems
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Professional Summary

Senior Backend Engineer with experience designing and building Go-based microservices, payment systems, and distributed infrastructure across fintech and DeFi. Strong background in API design, backend architecture, and production reliability, with a solid mathematical foundation supporting system correctness and performance.

Experience

Chief Technology Officer (CTO) / Lead Backend Engineer — Topizzy
September 2025 – Present

- Designed and implemented Go microservices for airtime and payment processing.
- Integrated third-party payment providers with retries, idempotency, and reconciliation logic.
- Led backend architecture decisions to improve transaction reliability and fault tolerance.
- Collaborated with product and frontend teams to ship secure, scalable backend services.

Senior Backend / Blockchain Infrastructure Engineer — FiatRails Protocol
December 2025 – Present

- Built backend services supporting financial transaction flows and infrastructure components.
- Designed APIs and backend logic for system integrations and operational robustness.
- Worked on production reliability, monitoring considerations, and system correctness.

Backend Engineer — Imara Protocol
January 2025 – November 2025

- Designed and implemented backend systems for staking, governance, and reputation tracking.
- Built APIs enabling secure interaction with governance and staking features.
- Collaborated with designers, product managers, and community teams to shape product direction.

Software Engineer (Backend) — Zone01 Kisumu
April 2024 – November 2025

- Implemented OAuth authentication and authorization in REST APIs, improving application security.

- Built RESTful APIs in Go following clean architecture principles.
- Contributed to blockchain-integrated applications enabling wallet-based authentication.

Education

Bachelor of Science in Mathematics — University of Nairobi
September 2017 – September 2021
Relevant coursework: Probability & Statistics, Linear Algebra, Numerical Methods,
Operations Research, Mathematical Modelling.

Technical Skills

Languages: Go, SQL, Solidity, JavaScript
Backend: REST APIs, API Design, Authentication, Payments
Data: PostgreSQL, MySQL, Redis
Infrastructure: Docker, GitHub Actions, AWS

Awards & Recognition

- Overall First Position : Ethiopia Hackathon 2025 (Imarahub.xyz)

- Best Fintech Project : Code & Cheer Zone01 Kisumu Hackathon 2024

- Speaker : DevFest Kisii 2024

- Best Payment App - W3Node 2026 South Africa (Topizzy.xyz)