

DANIEL TENKORANG SOFTWARE ENGINEER

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Seasoned Software Engineer with extensive experience building applications from the ground up using Golang and modern architectures. Strong expertise in event-driven microservices, distributed backend systems, and graph databases (Neo4j). Proficient in REST, GraphQL, and gRPC API design, containerization, and DevOps practices. Adept at leading teams, optimizing system performance, and delivering scalable, secure, and reliable solutions across industries such as banking, payments, IoT, and education technology.

EDUCATION

BSc Computer Science, University of Ghana

07/2017 – 11/2021 | Accra, Ghana

LANGUAGES

English

SKILLS

C#: ASP.Net Core, ASP.Net Framework, EF-Core, Akka.Net. • **Golang:** Gin, Go-Fiber, GoFr, SQLC, SQLX, Gorm • **Python:** Odoo, Fastapi, Django • **JavaScript & Typescript:** ReactJs, NodeJs, NextJs, React Native, Redux • **HTML, CSS, JS, PHP** • **Database Management:** PostgreSQL, MySQL, MongoDB, Cosmos DB, Firebase, Turso | **Graph Databases:** Neo4j (Cypher queries, modeling graph relationships, knowledge graphs) •

Devops & Cloud: Cloud Management: AWS, Azure, Linode, Google Cloud | Configuration Management: Ansible, Shell, Terraform | Containerization & Orchestration: Docker, Kubernetes •

Systems Monitoring: Grafana, Prometheus, Zipkin, Serilog • **IT Technical Support:** Hardware and Application Support. • **Linux Administration:** Ubuntu, Debian, Kali •

Messaging, Streaming and Search Platforms: Kafka, Redpanda, RabbitMQ, ElasticSearch •

Cloud Management: AWS, Azure, GCP, Linode, Ansible, Docker, Kubernetes, GitOps, Terraform (modules, providers, state management), CDK for Terraform (CDKTF in Go), AWS CDK in Go, GitOps • **Java:** Spring, SpringBoot, Quarkus, Java EE, Jakarta • **Programming Languages:** Golang, Javascript, Python, Java, C# •

Rust • **PHP:** Laravel, Symphony • **AI & Cognitive Services:** Azure AI Search, Azure OpenAI, Dalle, Semantic Kernel, Kernel Memory. • **Security & Authentication:** OAuth2, JWT, Keycloak, RBAC •

Architectures: Microservices, Event-driven, 12-Factor App principles, Distributed Systems •

Others: REST API, GraphQL, gRPC, Agile/Scrum, Feature Flags

PROFESSIONAL EXPERIENCE

Lead Software Engineer, Guaranty Trust Bank

07/2024

- **Integrated** Finacle core banking and payment services (transfers, collections, disbursements), enabling **real-time, straight-through processing** across digital and partner channels.
- **Engineered and led** the migration from monolithic systems to **event-driven microservices** (Golang, .NET, Kafka/Redpanda), improving scalability, resilience, and deployment independence.
- **Built and managed teams** delivering **high-throughput, fault-tolerant APIs** for payments, account services, and reconciliation—implementing idempotency, rate limiting, retries, and end-to-end observability (Grafana, Prometheus, ELK).
- **Drove architecture modernization**, establishing microservice governance standards, CI/CD pipelines, and observability baselines for latency, throughput, and SLA compliance.
- **Optimized Finacle/core banking performance**, diagnosing and resolving production bottlenecks to reduce transaction latency under peak load by 40%+.
- **Implemented secure access frameworks** with OAuth2/OIDC, RBAC, and centralized audit logging; strengthened session management and internal API security.
- **Collaborated cross-functionally** with DevOps, Security, and Product teams to align architecture with compliance (PCI DSS, ISO 27001, GDPR) and business objectives.
- **Mentored backend engineers**, conducted code reviews, enforced coding standards, and introduced **engineering OKRs** for quality, delivery speed, and uptime.
- **Defined API standards and best practices**, including versioning, schema validation, and backward compatibility strategies.
- **Introduced service reliability engineering (SRE) practices**, including error budgets, performance dashboards, and proactive incident response workflows.
- **Championed domain-driven design (DDD) principles** and asynchronous event orchestration to decouple business capabilities and improve system maintainability.
- **Spearheaded data consistency and messaging strategies**, leveraging Kafka and transactional outbox patterns for reliable event propagation across microservices.

Senior Fullstack Software Engineer (Remote), Edusogno

05/2024 – present
Via Ospedale di Venere
82B, Italy

- **Developed and maintained** scalable, secure web applications using **Laravel, Node.js, Python, and PHP**, adhering to **clean architecture, SOLID principles, and industry best practices**.
- **Engineered dynamic and performant user interfaces** with **React.js and TypeScript**, significantly improving frontend responsiveness, UX, and maintainability.
- **Designed and optimized relational databases** (MariaDB, MySQL), implementing advanced indexing, normalization, and query optimization to ensure **data integrity and sub-second query performance**.
- **Built and integrated RESTful APIs** and internal microservices for authentication, data exchange, and third-party integrations (payment gateways, CRM, analytics tools).
- **Refactored legacy systems**, modularizing tightly coupled codebases into **service-oriented and event-driven components**, boosting system scalability and maintainability.
- **Implemented modern DevOps practices**, using **Git, GitHub Actions, GitLab CI, and Jenkins** for automated builds, tests, and deployments across staging and production environments.

- **Led architecture design** for scalable backend systems, introducing **microservice and event-driven architectures** to reduce inter-service coupling and improve reliability.
- **Developed a Change Data Capture (CDC) pipeline** between **MySQL and Elasticsearch**, enabling **real-time indexing, search, and analytics** over large transactional datasets.
- **Created high-performance Python APIs** with **FastAPI, Django, and Flask**, tailored for internal data pipelines, API gateways, and backend services.
- **Integrated message queuing systems** such as **Redis Streams and Kafka**, decoupling services and improving throughput, fault tolerance, and async task handling.
- **Containerized and orchestrated services** using **Docker and Docker Compose**, achieving consistent, portable deployments across development and production.
- **Configured and managed Elasticsearch clusters** for **full-text search, data analytics, and log aggregation**, integrated with **Kibana** dashboards for operational visibility.
- **Implemented secure access control** with **JWT and OAuth2**, ensuring compliant authentication and role-based authorization across distributed systems.
- **Collaborated cross-functionally** with product, DevOps, and QA teams in **Agile/Scrum** settings, driving sprint planning, peer reviews, and release readiness.
- **Mentored junior engineers**, guided code review processes, and contributed to establishing **engineering standards, API documentation, and architecture blueprints**.

Lead Software Engineer(Remote), Kpododo Consult

06/2023 – 04/2025

Tamale, Ghana

- Led the development team as a Team Lead, overseeing project execution, system architecture, and code quality across multiple services and applications.
- Designed and deployed **Debian-based microservice environments** for backend services, automating infrastructure setup and software provisioning using **APT, Ansible, and Bash scripting**.
- Developed and optimized **deployment pipelines and system automation workflows**, ensuring reliability and reproducibility across environments.
- Implemented **containerized workloads** (Docker, Kubernetes) on Debian servers with secure configurations and automated monitoring (Prometheus, Grafana).
- Built event-driven systems with Kafka and Redpanda, ensuring scalability, resilience, and loose coupling of services.
- Designed secure APIs (REST, GraphQL, gRPC) for ERP and messaging modules, applying GitOps for release automation.
- Applied observability with Prometheus, Grafana, and Elasticsearch for proactive monitoring and debugging.
- Implemented **Keycloak-based authentication** and authorization (OAuth2, JWT, RBAC) for enterprise applications.
- Led a cross-functional team, mentoring junior engineers, enforcing code quality, and ensuring Agile delivery.

Software Engineer (Remote, Contract), Cloud Conduction

07/2024 – 01/2025

Auburn Hills, Michigan,
United States

- Designed and maintained **Debian-based Azure compute environments**, ensuring optimized resource management and deployment consistency.
- Automated **package installation, dependency management, and system configuration** using Bash and Terraform.
- Managed Azure Cosmos DB and Service Bus for distributed systems with low-latency access.

- Integrated Azure AI and OpenAI services to build intelligent, context-aware applications.
- Developed CI/CD pipelines using Azure DevOps and containerized apps for scalable, Debian-hosted environments.
- Implemented retrieval-augmented generation (RAG) workflows using Semantic Kernel and Kernel Memory.

Senior Golang Developer, Teksol Eganow

01/2024 – 11/2024

Accra, Ghana

- Engineered **Debian-based build and deployment systems**, integrating system-level automation with **shell scripts, systemd services**, and secure package management.
- Maintained and optimized **Linux environments** for high-availability payment microservices, ensuring consistent package dependencies and OS-level hardening.
- Developed new payment provider applications from scratch using Golang to integrate Mastercard, Visa, and mobile money gateways.
- Re-architected enterprise systems into Golang microservices, applying 12-Factor App principles for scalability and resilience.
- Designed REST, GraphQL, and gRPC APIs for seamless interaction across services.
- Implemented Neo4j to model complex provider-client relationships, enabling graph-based queries and analytics.
- Containerized applications with Docker, deployed via Kubernetes, and automated CI/CD pipelines for continuous delivery.
- Ensured observability with Prometheus, Grafana, and Elasticsearch while applying feature flags for controlled releases.

Software Engineer (Contract), Quantum Group Limited

10/2022 – 04/2023

- Played a pivotal role as a Software Engineer in the reconstruction and maintenance of existing systems, ensuring their robustness and efficiency.
- Conducted meticulous debugging and testing procedures on previously developed systems, guaranteeing their reliability and optimal performance.
- Demonstrated expertise in creating detailed UML diagrams and architectural flows for complex systems, providing essential blueprints for development and enhancement initiatives.
- Developed innovative business solutions and modules, contributing to the organization's strategic objectives and operational excellence in Odoo using Python.
- Spearheaded the development of a specialized system application, utilizing industry-standard protocols to establish seamless communication with IoT devices, enhancing connectivity and functionality.
- Engineered and configured containers for applications on servers, leveraging containerization technologies for enhanced scalability and resource management.
- Managed an automation application tailored for fueling filling stations, ensuring smooth and error-free operations in critical environments.
- Seamlessly integrated Station Automation application with Grafana, enhancing data visualization and analysis capabilities for actionable insights.
- Successfully integrated Open Source Projects with Email Servers and LDAP, optimizing communication and collaboration within the organizational ecosystem.

Software Engineer, Senyo Golabal Solutions

07/2019 – 09/2022

Accra, Ghana

- Managed team of employees, overseeing hiring, training, and professional growth of employees.

- Created UML architecture diagrams for systems for development.
- Performed duties in accordance with all applicable standards, policies and regulatory guidelines to promote safe working environment.
- Building of Business web solutions using the MERN Stack(MongoDB,ReactJs,Express,NodeJs)
- Revamping and upkeep of PHP-based systems.
- Maintained energy and enthusiasm in fast-paced environment.
- Architecturing of System Designs for systems to be developed.
- Building of Mobile applications using React Native and redux for state management.
- Worked to maintain outstanding attendance record, consistently arriving to work ready to start immediately.
- Worked with development team in developing Web applications, mobile applications and standalone applications.

CERTIFICATES

Reyach Concepts

Certification of Participation in Web Application Development

Skills and Competence

Certificate of Participation in Cisco VLAN and Static

2024 Ethics Certification Programme

Chartered Institute of Bankers, Ghana Ethics Certification Programme

Certificate of Completion Security for Developers

Certificate of completion security for developers by snyk

REFERENCES

Sylvester Quist, *Manager*, Quantum Group Limited

Mrs. Kwakyewaa Owusu, *Head of Operations*,
First Atlantic Bank

Mr. Edwin Odoi, *IT Manager*, First Atlantic Bank

Mr. Emmanuel Kumedzina, *CEO*,
Senyo Global Solutions