Edward Kwabena Twumasi

Accra, Ghana

✉ edwardktwumasi1000@gmail.com

📱 +233 552 489 602 | +233 536 313 555

🌐 [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

Professional Summary

Experienced Software Engineer with 5+ years in building scalable microservices for fintech, e-commerce and data systems. Proven leader and mentor, adept at architecting solutions and optimizing infrastructure. Passionate about developing junior talent and advancing Ghana's tech landscape.

Technical Skills

- **Languages & Frameworks**: Python, C#,Java, .NET Core, TypeScript, React, Next.js, Node.js, NestJS,FastApi
- **Cloud Platforms**: Azure (Azure DevOps), AWS (EC2, S3),GCP(Cloud SQL,Cloud Run,Distance Matrix Api)
- **Databases**: PostgreSQL, MongoDB, Elasticsearch
- **Caching**: Redis, Redis Data Structures
- **Event Processing**: Kafka, RabbitMQ
- **DevOps & CI/CD**: Docker, Docker Compose, GitHub Actions, Azure DevOps
- **Developer Tools**: Git, Postman, Swagger, Open Telemetry
- **Principles & Patterns**: Microservices Architecture, SOLID Principles, Repository Pattern, TDD, OOP

Professional Experience

Lead Backend Engineer(Microfinance App Powered by Lendscore)

📍 Hubtel Limited, Accra | Feb 2025 – Present

- Lead a team of 2 engineers in developing a credit platform, enabling thousands of customers to access flexible loans.

- Implemented read-replica support for PostgreSQL to distribute load and improve availability.
- Proactively identify and resolve inherited performance and reliability issues.
- Implemented automated testing pipelines using Java, Maven, and Docker, enhancing test coverage and improving deployment reliability.

Lead Backend Engineer(Food and Everyday Essentials)

📍 Hubtel Limited, Accra | May 2024 – Feb 2025

- Led a team of 2 engineers on an e-commerce platform with integrated payment systems, serving thousands of users daily.
- Engineered cache-first APIs with Redis and Elasticsearch to onboard Melcom Ghana, reducing response times to <300ms and driving a 20% sales uplift.
- Mentored a junior engineer on system architecture and coding standards, resulting in their promotion to team lead.
- Collaborated with platform engineers to deploy microservices and monitor health via Azure DevOps and DataDog.

Backend Engineer(Payments and Messaging)

📍 Hubtel Limited, Accra | March 2023 – March 2024

- Played a key role in optimizing the our payment platform using Kafka, Elasticsearch, and Akka.NET, scaling to handle 20x traffic growth.
- Developed the implementation for integrating third Party Providers like GMoney into our Payment System
- Maintained system reliability using **Open telemetry** for proactive monitoring and debugging and error resolution of Micro Services

---

Projects

DrugHub (Side Project, Ongoing)

- Developed a modern backend for a pharmaceutical ordering platform using FastAPI.
- Built and tested locally with Docker and Docker Compose, and deployed to Google Cloud Run with PostgreSQL hosted on Cloud SQL.
- Integrated OTP-based email verification and secure authentication workflows.
- Demonstrates proficiency in cloud-native backend development and secure user onboarding.

TreckTraffic (October 2021 – October 2022)

- Designed and developed a GIS-based traffic data platform used by KNUST Civil Engineering researchers.
- Enabled automation of data collection, analysis, and visualization for hundreds of thousands of traffic samples—including international research locations.
- Replaced labor-intensive workflows with reliable, scalable solutions using Node.js, PostgreSQL, and AWS EC2.

Education

Bachelor of Science in Computer Science

📍 Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana

📅 September 2017 – November 2021

Certifications

- **Software Development Life Cycle** – LinkedIn Learning

Soft Skills

- **Leadership**: Proven team lead with mentorship experience and influence in cross-functional teams.
- **Problem-Solving**: Strong analytical mindset for diagnosing system failures and crafting robust, scalable fixes.
- **Adaptability**: Quick to adopt new stacks and tools; successfully transitioned between cloud providers, frameworks, and domains.
- **Communication**: Comfortable interfacing with executives, clients, and team members to drive clarity and execution.
- **Work-Life Balance**: Committed to maintaining a healthy work-life balance while delivering high-quality results.