

Kwame Owusu-Boakye

Senior Manager, Software Engineering

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SUMMARY

Engineering leader with 13+ years of experience delivering fintech, platform, and data modernization in regulated environments. Lead engineers responsible for complex bank migration programs, moving legacy financial systems to scalable cloud-native platforms while partnering closely with product and client-facing stakeholders to deliver reliable business outcomes.

Combine engineering leadership with hands-on architectural depth across distributed systems, AWS, and Spark-based data platforms. Also built and deployed production-grade platforms across fintech, AI, and SaaS, with a focus on reliability, scalability, and operational rigor.

CORE EXPERTISE

Engineering Leadership · Platform Strategy · Fintech Systems · Bank & Payment Integrations · Distributed Systems · Cloud Architecture · Operational Excellence · Team Development · Cross-Functional Delivery · Risk & Reliability · AWS · Spark · Data Pipelines · Kubernetes · Terraform

KEY ACHIEVEMENTS

- Led engineering delivery for large-scale bank migration initiatives, transitioning legacy financial data platforms to scalable cloud-native Enterprise Data Platforms.
- Architected and scaled distributed data pipelines across core banking, ACH, wire, and check processing systems in regulated financial environments.
- Drove platform reliability and delivery predictability through stronger validation, engineering standards, and deployment readiness practices.
- Built production-grade platforms across fintech, AI, and SaaS domains, including an AI-powered hiring platform, a contribution and tax receipt system, and an AI-driven go-to-market platform.
- Mentored and supported engineers through onboarding, code reviews, and engineering best practices to improve team effectiveness and quality of delivery.

SKILLS

Engineering Leadership

Engineering management, Cross-functional collaboration, Roadmap execution, Mentoring, Operational excellence

Programming Languages

Python, Scala, Java, TypeScript, PHP, JavaScript, C/C++, C#

Data Engineering

Spark, Hadoop, ETL pipelines, PostgreSQL, MySQL, MongoDB, Redshift, Aurora, SQL Server

Fintech & Financial Systems

Core banking integrations, ACH, Wire, Check21, Financial data pipelines, Regulated systems

Cloud & Infrastructure

AWS, Kubernetes, Docker, Terraform, Jenkins, Vault, Consul, Ansible

Backend & Application Development

FastAPI, Flask, Laravel, Node.js, React

PROFESSIONAL EXPERIENCE

Senior Manager, Software Engineering, Nasdaq Verafin

07/2025 – Present
St. John's, NL, Canada

- Lead a team of engineers delivering large-scale bank migration initiatives from legacy systems to a modern Enterprise Data Platform.
- Partner with Product Managers and Customer Success Managers to align engineering execution with client needs, timelines, and regulatory constraints.
- Contribute to roadmap execution by balancing delivery commitments, platform readiness, and scalability requirements.
- Establish and reinforce engineering standards for testing, validation, and deployment readiness to improve delivery predictability and reduce operational risk.
- Serve as a technical escalation point for complex data and integration issues across distributed systems.
- Support team growth through mentorship, technical guidance, and engineering quality practices.

Senior Software Developer, Nasdaq Verafin

06/2021 – 06/2025
St. John's, NL, Canada

- Designed, built, and maintained distributed data integration pipelines using Scala, Spark SQL, and AWS for complex financial data environments.
- Integrated banking systems including Core Banking, ACH, Wire, and Check21, ensuring accurate and reliable processing of regulated financial data.
- Diagnosed and resolved high-priority production and operational issues across distributed systems, improving platform stability and performance.
- Conducted code reviews and risk assessments to strengthen software quality, maintainability, and security.
- Mentored junior developers and new team members, accelerating onboarding and reinforcing data engineering best practices.

Software Development Manager, Zentech IT Solutions Limited

01/2017 – 08/2019
Accra, Ghana

- Led a team of developers delivering enhancements to the ZenHRM platform, including payroll, employee self-service, claims, and loan management capabilities.
- Built a recruitment module that expanded the product's business functionality.
- Worked directly with customers to gather requirements, prioritize improvements, and deliver software aligned with business needs.
- Improved engineering execution through CI/CD practices and stronger delivery discipline.
- Managed developer task allocation, quality expectations, and day-to-day execution.

Software Developer, National Trust Holding Company Limited

09/2012 – 12/2016
Accra, Ghana

- Developed and enhanced financial software supporting investment and asset management operations.
- Performed database design, migration, backup, and troubleshooting activities across operational systems.
- Managed Linux systems and network infrastructure to support reliability and day-to-day business continuity.
- Supervised team members and contributed to the delivery of internal financial technology solutions.

EDUCATION

MASc. Computer Engineering, Memorial University of Newfoundland

09/2019 – 05/2021
St John's, Canada

BSc. Computer Engineering, University of Ghana

08/2008 – 05/2012
Accra, Ghana

SELECTED PROJECTS

TransactIQ, *Financial Contribution & Tracking Platform*

- Architected and developed a fintech platform for churches and charities to manage donations, track contributions, and automate tax receipt generation.
- Built backend services using FastAPI and PostgreSQL, with containerized deployment using Docker and Kubernetes.
- Applied infrastructure automation and release practices using Terraform and CI/CD pipelines.

Skill Match AI, *AI-Powered Hiring Platform*

- Designed and built an AI-driven platform that matches job seekers to roles using resume analysis and skill-based scoring.
- Developed backend services with FastAPI and integrated LLM capabilities for intelligent job matching workflows.
- Built scalable supporting architecture using PostgreSQL, Docker, and Jenkins.

Rivet Sales Blueprint Builder, *AI-Driven GTM Strategy Platform*

- Built an AI-powered platform that generates structured go-to-market strategies for early-stage companies.
- Integrated OpenAI and LangGraph workflows into scalable backend services.
- Designed cloud-native architecture using AWS, Kubernetes, and MongoDB.

CERTIFICATIONS

- AWS Certified DevOps Engineer - Professional
- AWS Certified Machine Learning Engineer - Associate
- AWS Certified Data Engineer - Associate
- AWS Certified Developer - Associate
- AWS Certified AI Practitioner
- HashiCorp Certified: Terraform Associate

LEADERSHIP & COMMUNITY ENGAGEMENT

- Panelist, **Beyond the Degree**, speaking on career growth and entering the tech industry.
- Speaker at leadership-focused events and summits on engineering leadership and team development.
- Delivered a leadership talk during **Black History Month** focused on growth, representation, and impact in tech.
- Mentor through **Mentorship Over Coffee**, supporting early-career professionals.

VOLUNTEER EXPERIENCE

Volunteer, *Google Developer Group*

Supported DevFest and community events, mentoring developers and coordinating event logistics.

02/2022 – Present
St. John's, Canada

DevOps Engineer, *Inkling Ops (Volunteer)*

Supported AWS infrastructure, Terraform-based provisioning, and release automation with Kubernetes and CI/CD tooling.

08/2023 – 05/2025
Remote