

JAMES KWAME AMO

Backend Engineer | Payments & Financial Systems

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PROFILE

Backend engineer with 5+ years building high-throughput payment systems at Morgan Stanley and fintech startups. Specialist in transaction middleware, API integration, and payment gateway implementations. Co-founder of Infusi Technologies, building products for African markets.

EXPERIENCE

Software Engineer | TunicPay (via turntabl)

Remote (London) | January 2026 – Present

- Contributed to transitioning fraud investigation system to intelligence-driven architecture using Kotlin and Temporal workflows.
- Built bidirectional bridge for schema migration and implemented distributed transaction processing for anti-fraud platform.
- Worked with Kotlin, Firestore, GraphQL, and Protobuf in high-security fintech environment.

Co-founder & Backend Engineer | Infusi Technologies

Accra, Ghana | January 2025 – Present

- Built Anyigba, a land verification platform reducing property fraud in Ghana using Spring Boot, PostgreSQL, and event-driven architecture with state machine workflows.
- Developed Invoica, an invoicing platform for African SMEs featuring multi-currency support (GHS, USD, NGN, KES), AI-powered invoice generation, and WhatsApp PDF sharing.
- Architected reusable WhatsApp Business API framework powering loan applications, ecommerce flows, and service bookings for multiple clients.
- Led technical decisions, code reviews, and mentored junior developers while managing client relationships.

Software Engineer | Morgan Stanley (via turntabl)

Remote (London team) | February 2021 – December 2025

- Automated confirms generation for autocallable structured equity products, increasing team productivity by 90% and eliminating manual processing bottlenecks.
- Developed Python automation reducing trade deal reflow processing from 60+ minutes to 15 minutes, enabling faster trade reconciliation.
- Built Spring Boot service for automated failed trade replay, doubling developer efficiency in handling trade exceptions.
- Led migration of large Scala monolith from Jackson Codehaus (v1) to FasterXML Jackson (v2), modernising serialisation across the entire codebase.
- Implemented health monitoring using Spring Boot Actuators and load balancing with Netflix Ribbon for improved system reliability.

Backend Engineer | GMoney (Fintech)

Accra, Ghana | January 2025 – April 2025

- Architected core middleware powering all transaction flows: P2P transfers, bank-to-wallet operations.
- Integrated Mastercard API into payment platform, enabling international card transactions.
- Implemented Brij API integration (inbound/outbound flows) for cross-platform transaction processing.

TECHNICAL SKILLS

Languages: Java, Kotlin, Scala, Python, SQL

Frameworks: Spring Boot, Spring Data JPA, Spring Security, Temporal

Databases: PostgreSQL, MySQL, Redis, DB2

Cloud & DevOps: AWS (S3, EC2, Lambda), Docker, CI/CD, SonarQube

Payments: Mastercard API, Paystack, Transaction Middleware

EDUCATION

BTech Computer Science - Koforidua Technical University, Ghana

ADDITIONAL

- Mentorship: Active mentor in turntabl's developer programme for engineering hires.
- Languages: English (fluent)
- Work Authorisation: Willing to relocate; eligible for Highly Skilled Migrant (Kennismigrant) visa sponsorship.