

Samuel Twumasi

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EDUCATION

Prairie View A&M University

MSc Computer Science

Graduating Aug 2028

Prairie View, TX

Relevant Coursework: Fundamentals and Concepts of Programming Languages, Advanced Database Management System, Software Engineering, Advanced Operating System, Advanced Computer Architecture, Design and Analysis of Algorithms

EXPERIENCE

Safelynk

Fullstack Software Engineer

Sep. 2025 – Present

Remote, Texas

- Built a multi-vendor e-commerce platform using **Next.js**, **Flutter**, and **Node.js/PostgreSQL**, shipping storefronts, vendor dashboards, and an admin console.
- Built an **AI** business assistant with Retrieval-Augmented Generation with **LLM** tool calling for context aware, natural-language queries over vendor store data
- Built a multi-tenant subdomain system on **Cloudflare** Pages and Next.js middleware that provisions each vendor a branded store URL from a single deployment.
- Established **CI/CD** pipelines for automated testing, **Docker** image builds, and production deployments, reducing deployment time, and improving release consistency.

Urban Blu Technology Limited

Fullstack Software Engineer

Sep. 2024 – Aug. 2025

Accra, Ghana

- Built Next.js player and admin portals and an Android **POS** app, replacing paper ticketing for 200+ retail agents.
- Engineered an ML-based transaction risk-scoring pipeline using behavioral and transactional features to detect anomalous staking and withdrawal activity in real time.
- Unified NexGo, Sunmi, and iPos printer SDKs via Kotlin method channels; collapsing builds into a single APK.
- Added **GPS** telemetry to all POS devices for real-time monitoring from the admin dashboard.

Mova

Mobile App Engineer

May 2024 – Sep. 2024

Accra, Ghana

- Collaborated on the Customer and Driver apps in **SwiftUI** using **WebSockets** for real-time dispatch and status updates, improving responsiveness.
- Built turn-by-turn navigation and live route syncing between user and driver apps using Google Maps SDK, providing accurate ETAs and responsive rerouting.

ViuHealth Inc

Software Engineering Consultant

Dec. 2022 – Apr. 2024

New York, USA

- Built **Datadog**-based observability with APM, logging, and infrastructure monitoring, reducing production issue detection time by ~60%.
- Containerized backend services with **Docker** and deployed them behind **Nginx** and **AWS** load balancers, enabling horizontal scaling, health checks, and zero-downtime service replacement under increasing traffic.
- Designed a semantic patient-provider matching pipeline using clinical embeddings and **cosine similarity** to rank specialists against patient symptom profiles.
- Migrated server and **PostgreSQL** database from Digital Ocean to AWS **EC2** and **RDS** while reducing costs and ensuring zero data loss and minimal downtime.

SKILLS

Developer Tools: Git, AWS, Cloudflare, Docker, Claude Code, Redis, CI/CD, PostgreSQL, Sentry, MongoDB, Postman
Frameworks: Node/ExpressJs, SpringBoot, Angular, SwiftUI, ReactJs, Next.js, Tailwind CSS, Flutter, React Native
Programming: Python, JavaScript, TypeScript, Go, Java, Swift, SQL, Dart, Data Structures & Algorithms