

SAMUEL TWUMASI



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Personal Website



LinkedIn

Education

Prairie View A&M University

MSc Computer Science

Aug. 2026 – Present

University of Ghana

BSc Computer Science

Aug. 2020 – Aug 2024

Professional Experience

Safelynk

Fullstack Software Engineer

Sep. 2025 – Present

Accra, Ghana

- Built a multi-vendor e-commerce platform end-to-end across **3 platforms (a Next.js web app, a Flutter mobile app, and a Node.js/Express + MongoDB backend)** serving customer storefronts, vendor dashboards, and a platform admin.
- Architected a multi-tenant **dynamic subdomain system** (wildcard *.safelynk.shop on Cloudflare Pages plus Next.js edge middleware) that provisions each vendor a branded store URL from a **single deployment**, cutting onboarding to a live storefront to **under a minute** with zero per-vendor DNS or infrastructure.
- Integrated **Moolre payments (cards, mobile money, bank transfer)** with per-vendor subaccounts and automatic revenue splitting, plus automated payouts on a **6-hour** settlement cycle that removed manual vendor settlement entirely.
- Engineered a **concurrency-safe** checkout with atomic stock reservation to prevent overselling under load, backed by a scheduled background-job system for payouts, unpaid-order expiry, and vendor re-engagement.
- Shipped **over-the-air updates** via **Shorebird**, delivering production fixes to users in **minutes** instead of the typical 1 to 3 day app-store review cycle.

Urban Blu Technology Limited

Fullstack Software Engineer

Sep. 2024 – Aug. 2025

Accra, Ghana

- Built two **Next.js** web apps (player and admin) and an **Android POS app** for a lottery betting platform, replacing a manual paper ticketing process for **200+ retail agents**.
- Integrated **three thermal-printer SDKs (NexGo, Sunmi, iPos)** via Kotlin method channels with runtime vendor detection, collapsing three vendor builds into a single APK.
- Added **GPS tracking** for POS terminals, streaming **location updates** every 30 seconds to give admins **real-time visibility** over **200+ field devices**.
- Shipped a **role-based access system** with page-level permissions across 13 dashboard modules, restricting finance, draw, and support staff to their own scope.
- Implemented a **dual-approval workflow** for draw results, requiring a second admin to confirm or reject submitted winning numbers before publication, with an **activity log** for every privileged action.

Mova

Software Engineer

May. 2024 – Sep. 2024

Accra, Ghana

- Built both **Customer** & **Driver** apps using **React Native** under **massive pressure** with an intense integration of **web sockets** throughout both apps with the backend to ensure seamless, responsive communication between customers and drivers.
- Built **turn-by-turn navigation** and live **route syncing** between user and driver apps using **Google Maps SDK**, providing accurate ETAs and responsive rerouting.
- Implemented **background location** updates with **background processing** to enable continuous, real-time location tracking for both drivers and users.

ViuHealth Inc

Software Engineering Consultant

Dec 2022 – April 2024

New York, USA

- Led the development of a **cross-platform mobile app** for autoimmune patient care and a companion dashboard for registered nurses, improving care coordination and enabling personalized treatment plans for over **3,000 users**.
- Initially developed the iOS app using **Swift and SwiftUI**, then led the strategic transition to **Flutter** to accelerate development and release cycles across platforms due to limited team size, reducing time-to-market by 40%.
- Collaborated and operated the **Node.js** backend powering both customer-facing web apps and internal admin panels, designing secure REST APIs, implementing JWT auth, and coordinating data flows across MongoDB database.
- Collaborated in a **Scrum-based** team to deliver bi-weekly sprint increments and presented app progress in stakeholder demos.
- Wrote unit tests for key features using **XCTest** and Flutter's **test package**, ensuring high test coverage across platforms.
- Built automated **CI/CD pipelines** with **Fastlane and GitHub Actions**, cutting deployment time by 65% and enabling zero-downtime deployment.

Technical Skills

- Developer Tools:** Git, AWS, GitHub Actions, VS Code, Apache Airflow, Docker, Agile/Scrum
- Frameworks:** iOS, React, Next, Node.js, Tailwind CSS, Flutter, NextJS, Java, React Native, Cursor.
- Programming:** Python, JavaScript, Java, TypeScript, Swift, SQL, Dart, Data Structures and Algorithms, Unit Testing (XCTest, Vitest)