

Muhammad O. Adam

SOFTWARE ENGINEER

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PROFILE

Software Engineer and Open Source Contributor with professional experience building production web and mobile applications across fintech, education, e-commerce, and logistics. Strong background in React, Next.js, React Native, and TypeScript, with hands-on experience in Go, Kotlin, API development, observability, system design, and secure software delivery. Experienced in translating product requirements and Figma designs into responsive, accessible interfaces and building reliable systems across application and infrastructure layers.

AREAS OF EXPERTISE

Core Engineering: Software Architecture, System Design, API Development, Observability, Distributed Systems, Open Source Development

Frontend & Mobile: React, Next.js, React Native, TypeScript, JavaScript, Kotlin, Tailwind CSS, Responsive UI, WCAG

Backend & Infrastructure: Go, Node.js, Express.js, NestJS, Supabase, REST APIs, Docker, Prometheus, SQLite, CI/CD

Engineering Practices: Testing, Security Hardening, SBOM, Build Provenance, MCP, Git, Technical Documentation, Figma

PROFESSIONAL EXPERIENCE

Full Stack Developer Apr 2023 - Dec 2023

Luka Finance | React.js, React Native, Tailwind CSS,

- Develop and maintain production web dashboard and mobile applications for fintech products.
- Build wallet functionality including withdrawals, airtime/data purchases, transaction management, and account workflows.
- Implemented salary advance functionality enabling users to access up to 50% of earned salary before payday.
- Integrate REST APIs and optimize server-state management with React Query for responsive application experiences.
- Build administrative dashboards, data tables, transaction views, filters, and export workflows.

Frontend Engineer Dec 2023 - Mar 2024

Vendcliq | Next.js, Context API, Formik

- Built a complete client dashboard supporting loan application and account management workflows.
- Developed administrative interfaces for customer monitoring and operational management.
- Implemented structured form validation and error handling using Formik and Yup.
- Created transaction history interfaces with filtering and user-focused data presentation.

Frontend Engineer Apr 2024 - Sep 2025

Willis University | Next.js, TypeScript, Redux

- Led frontend development of Willis Edu, an online learning platform with course marketplace workflows.
- Built instructor dashboards for course creation, management, and analytics.
- Developed student dashboards with course progress tracking and learning workflows.
- Implemented checkout functionality with coupon support and client-side state management.

Frontend Developer Intern Mar 2025 - May 2026

OMNIXBMS | React.js, JavaScript, PHP

- Developed responsive enterprise web interfaces and reusable frontend components.
- Converted Figma designs into production-ready responsive interfaces.
- Applied accessibility principles and WCAG-oriented practices across web interfaces.

Frontend Engineer May 2026 - Sep 2026

Pykup | Next.js, React Native

- Built web dashboards and cross-platform mobile applications for logistics operations.
- Implemented real-time delivery tracking and location-based user workflows.
- Developed responsive interfaces and maintained consistency across web and mobile experiences.

ENGINEERING PROJECTS

Watchdog | Open Source Fleet Monitoring, Diagnostics & Intelligence Platform | Go

- Built a production-oriented Go platform for system monitoring, diagnostics, fleet health analysis, reporting, and infrastructure observability.
- Implemented explainable health scoring, historical baselines, percentile analysis, OLS trend analysis, Pearson correlation, and multi-signal incident clustering.
- Exposed authenticated REST APIs and Prometheus telemetry for fleet health, trends, incidents, correlations, and intelligence findings.

- Built Cobra CLI workflows and a strictly read-only MCP integration with tools, resources, and prompt templates for fleet analysis and incident investigation.
- Implemented security and supply-chain controls including zero-CGO, no command execution, SBOMs, signed releases, build provenance, and cross-platform packaging.
- Verified 18 Go packages with passing tests and static analysis; benchmarked 100-node fleet evaluation at ~194 ns/op.

Muneer | Quran Recitation Recognition & Social Mobile Application | Kotlin

- Developing Android/iOS mobile application focused on Quran recitation recognition, audio playback, social feeds, profiles, communities, and real-time interactions.
- Building recitation recognition workflows to identify the relevant Surah and Ayah from recorded Quran recitation.
- Implementing authentication, social relationships, notifications, storage, and real-time backend functionality with Supabase.

Final-Year Project Management System | Full-Stack

- Developing a role-based academic project management platform for students, supervisors, lecturers, and administrators.
- Implementing dashboards, supervisor-student communication, document submission and feedback, progress reporting, and project-status tracking.

LEADERSHIP & COMMUNITY

- Chief Technology Officer, Inventors Community | Jan 2023 - Present | Lead technology direction, oversee community platforms, and facilitate technical mentorship.
- GDSC Lead, LASUSTECH Chapter | Aug 2023 - Jul 2026 | Organized technical workshops and hackathons and mentored junior developers.
- Technical Writer, freeCodeCamp / Hashnode / Dev.to | 2022 - Present | Publish technical articles and developer tutorials.

EDUCATION

Bachelor of Science(B.Sc.) in Computer Science | Lagos State University of Science and Technology | 2023 - 2026