

Tope Taiwo

Fullstack Software Engineer · 4+ years of experience

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PROFILE

Fullstack software engineer with 4+ years of experience designing, delivering, and scaling production-grade web, mobile, and cloud-native applications. Experienced in scalable APIs, distributed systems, event-driven microservices, multi-tenant platforms, and secure authentication. Leads technical initiatives, translates business requirements into scalable software, and delivers end-to-end products with cross-functional teams.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python	Frontend: React, React Native, Expo, Next.js, Redux, Zustand, Tailwind CSS, Nativewind
Backend: NestJS, Express, FastAPI, RESTful APIs, WebSockets	Databases & caching: PostgreSQL, MySQL, MongoDB, Redis
Cloud & DevOps: Azure, AWS, Docker, GitHub Actions	Architecture: Microservices, modular monolith, monolith, clean architecture, event-driven architecture, domain-driven design, RBAC, ABAC
Testing: Jest, unit, integration, E2E testing, TDD	Soft skills: Technical leadership, collaboration, mentorship, communication, problem-solving, product mindset, architecture design

WORK EXPERIENCE

A3T Solutions Limited · Co-Founder & Fullstack Software Engineer

June 2025 – Present · Hybrid · Ado-Ekiti, Nigeria

- Co-founded a software company building web, mobile, and enterprise solutions across education, logistics, and e-commerce; lead technical direction, architecture, technology selection, and engineering execution.
- Translate stakeholder requirements and business goals into product roadmaps and fullstack solutions using React, Next.js, React Native, Express, MongoDB, and cloud technologies.
- Multi-tenant school platform:** Designed a SaaS platform for multiple schools to manage students, staff, exams, attendance, fees, and academic records. Built tenant-isolated Express APIs, configurable workflows, role-based access, and interfaces for thousands of records using MongoDB.
- Single-school management platform:** Architected student, admissions, exam, attendance, results, and administration workflows using Express and MongoDB. Implemented authentication, RBAC/ABAC, rate limiting, validation, TDD, and automated unit tests.
- KlazikExams:** Owned end-to-end React Native/Expo app for secondary and tertiary students and professionals. Built auth, assessment, content, progress, analytics, and REST API sync features for Android and iOS.

Uri Creative Limited · Fullstack Software Engineer

November 2024 – May 2025 · Remote · Lagos, Nigeria

- Designed NestJS and PostgreSQL backend features with Redis and Azure Service Bus, handling thousands of daily API requests; built event-driven notifications, background workflows, and business events across microservices.
- Implemented queued CSV/PDF report generation, cloud storage, secure file workflows, centralized audit logging, exception management, and JWT/RBAC/ABAC authorization.
- Built React and Next.js dashboards; maintained GitHub Actions CI/CD pipelines, reducing deployment rollbacks by 30%. Collaborated in cross-functional two-week Agile sprints using ClickUp.

Pengrid Technologies · Fullstack Software Engineer (Contract)

March 2023 – September 2024 · Remote · United Kingdom

- Led backend architecture for INU, a global restaurant and venue discovery platform for Black diners, foodies, and allies, and architected the foundation for multi-vendor food delivery.
- Designed restaurant, vendor, menu, order, review, rating, recommendation, and profile domains and APIs; integrated Google Maps for discovery, geolocation, addresses, and location-based features.
- Implemented secure authentication, role-based access, audit trails, API access controls, notifications, and event-driven processes; aligned solutions with product stakeholders.

RECENT PROJECT

NIS Store Management Information System

A store management platform covering inventory, requisitions, approvals, dispatch, assets, and organizational structures.

Engineering focus: Modular architecture, role-based access, workflow design, organizational hierarchy, audit logging, imports, reporting, and APIs.

Technologies: TypeScript, NestJS, Next.js, PostgreSQL, Prisma, Redis.

EDUCATION

National Open University of Nigeria: M.Ed. Guidance & Counseling (May 2024); PGD in Education (December 2022); BA English, Second Class Upper (November 2015).

African Leadership Experience (AiCE): Certificate Course (September 2023).

MENTORSHIP & COMMUNITY IMPACT

Virtually Testing Foundation · Technical Mentor (July 2023 – January 2024) — Supervised 10+ software engineering and red team interns, mentored secure software practices, and coordinated cloud security tasks using Asana and Slack.

Community Ambassador (December 2022 – June 2023) — Engaged developer communities and supported internal security testing; awarded Outstanding Intern for security feature contributions.

Information Security Administrator (September 2022 – November 2022) — Supported internal application security testing; received an Outstanding Staff award for security feature contributions.

FELLOWSHIPS & MEMBERSHIPS

Technology for Social Change and Development Initiative (Tech4Dev) · Alumni (2022) · International Information System Security Certification Consortium (ISC2) · Member (2023) · NITDA 3 Million Technical Talent (3MTT) · Fellow (2023)

TECHNICAL WRITING & OPEN SOURCE

Published articles on backend engineering, system architecture, TypeScript, and software engineering best practices on MyPortfolio, Dev.to, and Medium.

Easy Social Auth · Open-source contributor: Contributed TypeScript features and fixes to an OAuth social authentication npm library, collaborating through pull requests and code reviews to improve extensibility and developer experience.