

DANIEL ADEYEMI

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PROFESSIONAL SUMMARY

Software Engineer skilled in building and deploying scalable full-stack and mobile systems, with hands-on experience in DevOps, cloud-native architectures, and machine-learning-enabled applications. Proven track record delivering production-grade features end-to-end across CI/CD pipelines, serverless infrastructure, secure APIs, and real-time systems. Experienced in Agile environments, leading frontend engineering for a client-sponsored fintech platform and consistently shipping reliable software at scale.

EDUCATION

BSc (Hons) Software Engineering

Oct 2022 – Jun 2026

Solent University, Southampton, United Kingdom

- Core Modules: Full-Stack Development, Mobile Application Development, Algorithms & Data Structures, Databases, Software Testing & Quality Assurance, DevOps & Cloud Computing, Secure Software Engineering, Artificial Intelligence & Machine Learning

TECHNICAL SKILLS

Languages: JavaScript · TypeScript · Python · SQL

Frontend: React · Tailwind CSS · React Native (Expo) · Vite

Backend: Node.js · Express.js · NestJS · REST APIs · Socket.IO · JWT Authentication · RBAC · Stripe

Databases & Caching: PostgreSQL · MongoDB · SQLite · Redis

Cloud & DevOps: Docker · GitHub Actions · CI/CD Pipelines · Turborepo · Vercel · Caddy

Testing & Monitoring: Jest · Cypress · Supertest · Prometheus · Grafana · Uptime Kuma · cAdvisor · ContentSquare

Security: Helmet · CSP · HTTPS enforcement · npm audit · CodeQL · GDPR / Privacy-by-Design

Data & ML: Scikit-learn · XGBoost · Prophet · Feature Engineering · TF-IDF · Differential Privacy

Methodologies: Agile / Scrum · TDD · Secure API Design · Infrastructure-as-Code

PROJECTS AND CONTRIBUTIONS

NIGEL – Gamified Financial Literacy App | Beyond Encryption (Project Lead & Frontend Engineer)

2026

[GitHub](#)

React Native (Expo) · TypeScript · Zod · Turborepo · React/Vite · FastAPI · Python · PostgreSQL · Redis · JWT · RBAC · CodeQL · npm audit · GitHub Actions

- Led a 3-person team** commissioned by Beyond Encryption to build a cross-platform fintech MVP for students aged 11–16, owning the full frontend architecture across a Turborepo monorepo (mobile + web dashboard).
- Built the student-facing mobile app in React Native (Expo) including an island-based learning map, interactive lessons, quiz engine with streak tracking, achievements, daily challenges, and a budget simulator with job selection, payslip breakdowns, budget allocation with live feedback, and random life events.
- Developed the teacher dashboard (React/Vite) with real-time student engagement analytics, visual charts (progress per island, active vs inactive students, weekly trends), sortable/filterable student tables, and quiz content management with scheduling.
- Implemented GDPR-compliant privacy-by-design UI flows: student consent prompts, revocable/time-limited share link generation, and a dedicated privacy data control section.
- CI/CD & security:** GitHub Actions lint + format checks (Turborepo), CodeQL static analysis (scheduled weekly), and automated npm audit for both workspaces on every push and PR — failing on high/critical severity findings.

RecipesGo – Serverless Recipe Sharing Platform (DevOps-Focused)

2024

[GitHub](#) | [Live Demo](#)

React · JavaScript · Tailwind CSS · Golang · AWS Lambda · API Gateway · DynamoDB · Cognito · SAM CLI · Docker · GitHub Actions · CloudWatch · Jest · Cypress · Vercel

- Engineered a fully automated CI/CD pipeline** across 6 GitHub Actions workflows: SAM-based backend deployment to AWS Lambda (prod + test environments), Vercel preview and production deployments, ESLint/Prettier lint checks, automated Jest (Go) + Cypress E2E tests, and dual vulnerability scanning (npm audit for frontend + govulncheck for Go backend) — blocking merges on any high-severity finding.
- Deployed a serverless backend on AWS (Lambda + API Gateway + DynamoDB + Cognito) with Go handlers, using Docker multi-stage builds and Go/Docker layer caching in CI to minimise build times.
- Enforced code quality via branch protection rules, mandatory PR reviews, staged preview → production deployment, and Go module caching — enabling reliable daily releases with zero-downtime deployments.
- Implemented OIDC-based AWS credential federation in CI (no static keys), SAM Infrastructure-as-Code for all AWS resources, and CloudWatch for centralised backend logging and metrics.

Olayinka Furniture – Cross-Platform E-Commerce Platform (Web & Mobile)

2026

[GitHub](#) | [Live Demo](#)

React · React Native (Expo) · TypeScript · Node.js · Express 5 · MongoDB · Redis · Stripe · Socket.IO · Caddy · Turborepo · Grafana · Prometheus · Uptime Kuma · JWT · Docker · Jest · Cypress · GitHub Actions

- Architected a cross-platform e-commerce solution (web + mobile) using Turborepo monorepo, featuring Stripe PaymentIntents, Socket.IO real-time support chat, multi-image product galleries (Cloudinary), and an admin panel with revenue analytics (Recharts) and review moderation.
- **Full observability stack:** Prometheus metrics exported from the API, auto-provisioned Grafana dashboards, Node Exporter for host metrics, cAdvisor for per-container metrics, Blackbox Exporter for HTTP health probing, and Uptime Kuma for uptime monitoring.
- Production-hardened backend security: Helmet with CSP/HSTS/X-Frame-Options, HTTPS enforcement middleware, express-mongo-sanitize, Arcjet + rate-limiter-flexible, Argon2 password hashing, JWT access + refresh token rotation, and Zod/Joi request validation — with all security issues tracked and resolved from Sublyzer audit findings.
- Containerised full stack with Docker Compose (MongoDB, API, web client, observability services) with healthchecks, Caddy reverse proxy for gzip, TLS, and security headers, and CI/CD via GitHub Actions with Jest/Supertest + Cypress.

Phishing Email Detection System – Machine Learning Project

2025

[GitHub](#)

Python · Scikit-learn · XGBoost · Streamlit · Differential Privacy · Federated Learning

- Built a stacking ensemble (Random Forest + XGBoost + Logistic Regression) achieving 99.44% accuracy and 99.93% ROC-AUC, reducing false positives by 45% vs traditional rule-based filters.
- Privacy-first architecture: irreversible PII tokenisation, differential privacy ($\epsilon = 1.0$ Gaussian noise), and federated learning simulation — all privacy-preserving variants maintained >98.7% accuracy in compliance with GDPR privacy-by-design.
- Engineered 130+ anonymised features (metadata + NLP via TF-IDF/SVD) and built an interactive Streamlit dashboard for real-time predictions, model explainability (feature importance), and visual analytics.

NHS Chronic ACSC Admission Trends – Data Science & Forecasting

2025

[GitHub](#)

Python · pandas · Prophet · statsmodels · Plotly · Seaborn · Jupyter Notebook

- Analysed 21 years of NHS unplanned hospital admission data (2003/04–2023/24) across age, sex, and deprivation dimensions using Python, identifying long-term trends, demographic inequalities, and short-term volatility patterns.
- Developed and evaluated time-series forecasting models (Prophet) to project future admission trends, supporting NHS service planning; achieved distinction-level grade.

PROFESSIONAL EXPERIENCE

Technical Support Executive – University of Lagos Microfinance Bank (Remote)

2024 – 2025

- Provided technical support for the revamp of the bank's mobile banking application, collaborating with development and operations teams to identify issues, test new features, and ensure smooth rollout for end users.
- Troubleshoot application bugs, documented technical requirements, and liaised between stakeholders and the development team to prioritise fixes and feature improvements.

Furniture Designer – Olayinka Furniture Palace

Mar 2020 – Sep 2022

- Gathered client requirements, translated needs into functional designs, and iterated based on feedback — building strong stakeholder communication and user-centred problem-solving skills.
- Managed end-to-end custom projects under tight budgets and deadlines, balancing quality, usability, and constraints.

REFERENCES

Dr Taiwo Ayodele — Course Leader, Computer Science & Software Engineering, Solent University | taiwo.ayodele@solent.ac.uk

Mr. Adekanbi Oluwaseun — MD / CEO, University of Lagos Microfinance Bank | Oadekanbi@unilagmfbank.com