

JOHN DAVID UDOUMOH

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PROFESSIONAL SUMMARY

Software Engineer with 4+ years of experience building high-performance web applications across the full stack — from React/TypeScript frontends serving 5,000+ users to Node.js/PostgreSQL backends handling real-time data and financial transactions. Published ML researcher (Mansoura Engineering Journal, 2025) with hands-on AI integration experience. Consistent record of measurable delivery: 60% reduction in manual workflows, 35% mobile retention lift and 100% production uptime across shipped features.

PROFESSIONAL EXPERIENCE

AI-First Software Engineer | *Risidio*

Dec 2025 – Present

United Kingdom

- Engineered AI-powered web applications across frontend (React/TypeScript) and backend (Node.js), including a client discovery assistant and a Slack-based onboarding agent, reducing manual onboarding time by ~60%.
- Designed and delivered end-to-end systems spanning frontend, backend, and AI layers; maintained 100% production uptime across all shipped features within the first quarter.
- Enforced rigorous code review standards and maintained >85% test coverage, reducing regression bugs by approximately 40% compared to pre-review baseline.
- Maintained zero critical post-release defects across all shipped features while consistently hitting sprint deadlines.

Software Engineer | *Greynote*

Oct 2023 – Aug 2025

Lagos, Nigeria

- Led full-stack development of a live edtech platform serving 5,000+ active users, delivering real-time chat, in-app notifications, and financial transaction features with <200ms average response time.
- Rebuilt the MVP as a Progressive Web App (PWA), improving Lighthouse performance scores from ~55 to 90+, boosting mobile retention by 35%, and achieving a 20% lift in organic search visibility.
- Architected reusable component libraries and state management logic used across 12+ product features, reducing new feature development time by ~30% and cutting UI-related bug reports by 25%.
- Scaled backend systems using Node.js, GraphQL, AWS, and PostgreSQL; integrated AI-driven content pipelines that increased user content engagement by 22%.
- Drove cross-functional delivery across UX, product, and backend teams — shipping 12+ features across 8 sprint cycles with a 90%+ on-time rate.

Frontend Engineer Intern | *The Boolean Technologies*

Apr 2022 – Sept 2022

Abuja, Nigeria

- Applied performance optimisation techniques including lazy loading, memoisation, and bundle splitting, achieving a 25% improvement in page load speed on targeted user flows.
- Participated in A/B testing initiatives that informed UX decisions adopted in the live product, contributing to a 12% improvement in user task completion rate.

NOTABLE PROJECTS

Proctor AI | *Academic Integrity System*

- Built a full-stack cheating detection system: React frontend for institutions, Python backend leveraging pose estimation (OpenPose), object detection, and XGBoost classification — achieving 91% detection accuracy.
- Research published in the Mansoura Engineering Journal (DOI, 2025), validating the system's rigour and demonstrating production-quality, evidence-driven engineering.

The Hectre | *Social Network for Housing*

- Developed a full-stack platform with financial transaction features, landlord referencing, and roommate matching — supporting end-to-end property management workflows for multiple concurrent user roles.
- Implemented scalable image management via Cloudflare R2, reducing asset load time by 45%; built with Turborepo monorepo, TypeScript, Node.js, Prisma/PostgreSQL, Zustand, and RESTful APIs.

TECHNICAL SKILLS

Frontend: React, TypeScript, JavaScript, Next.js, TailwindCSS, Zustand, HTML/CSS, PWA, Micro-frontends

Backend & Data: Node.js, GraphQL, PostgreSQL, MySQL, MongoDB, Prisma, RESTful APIs, Python, Microsoft Dynamics 365, Power Platform

Cloud & DevOps: AWS (S3, EC2, Lambda), Docker, GitHub Actions, Linux, CI/CD Pipelines, Azure

Testing & Quality: Jest, React Testing Library, Playwright (E2E), >85% Coverage Standards

Languages: TypeScript, JavaScript, Python, C++, Java, C#, .NET

EDUCATION

MSc Computer Science | Coventry University, UK

Sept 2025

Modules: Data Structures & Algorithms, Artificial Intelligence, Secure Computing Systems

B.Eng Computer Engineering | Covenant University, Nigeria

July 2018 – July 2023