

Pascal Ally Ahmadu

Senior Frontend Engineer | React, Next.js, React Native, TypeScript, Tailwind CSS | Full-Stack Foundation in Node.js

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PROFESSIONAL SUMMARY

Senior frontend engineer with 7+ years delivering React and TypeScript applications for enterprise, public-sector and SaaS clients across insurance, healthcare-adjacent research, HR, events and ERP domains in Nigeria and internationally. Builds component-driven, accessible and performant interfaces in React, Next.js and React Native, with working knowledge of Vue.js, and integrates them with REST and WebSocket APIs he has also designed and shipped. Establishes frontend standards, testing strategies (Jest, Vitest, Cypress, Playwright) and CI/CD pipelines, leads AI-assisted build sessions from prototype to production, and has delivered LLM and speech-to-text features into live user interfaces while retaining full accountability for quality, accessibility and security.

CORE TECHNICAL SKILLS

- **Frontend Engineering:** React, Next.js (SSR, SSG, Pages Router), React Native (React Navigation, Expo), Vue.js (working knowledge), TypeScript, JavaScript (ES6+), HTML5, CSS3, component-driven architecture, reusable UI libraries, design-to-code translation
- **Styling & Accessibility:** Tailwind CSS, CSS Modules, responsive mobile-first design, dark-theme design systems, high-contrast and large-text accessibility modes, WCAG-aligned accessible (a11y) UI, cross-browser compatibility
- **State Management & Data:** React Query / SWR, React hooks and context, real-time state over WebSockets, optimistic updates, offline-first caching with service workers (PWA), form and multi-step workflow state
- **Performance:** Code splitting, lazy loading, bundle optimisation, SSR/SSG and edge caching, rendering performance for large data sets (70+ session schedules, 40+ module ERP), installable PWAs
- **API Integration:** REST APIs, WebSocket clients, JWT and cookie-based authentication flows, RBAC-aware UI, integration with NestJS/Node.js backends, code-generated OpenAPI contracts
- **Testing:** Jest, Vitest, Supertest, Cypress, Playwright for unit, integration and end-to-end coverage; component testing; accessibility checks
- **Tooling, CI/CD & Cloud:** Webpack (via Next.js), npm, ESLint, Prettier, Git and pull-request workflows, GitHub Actions CI/CD, Docker, environment separation, Sentry error tracking, DigitalOcean and AWS deployments
- **AI-Native Engineering:** Leads AI-assisted (vibe coding) build sessions from Lovable prototypes to hardened production code; integrates LLM (Anthropic Claude) and speech-to-text (Deepgram) features into user interfaces; AI-assisted refactoring, test generation and documentation under disciplined human review with protection of secrets and client data

PROFESSIONAL EXPERIENCE

Lead Engineer | Cyber-Data Automations Ltd | Abuja, Nigeria

Feb 2026 – Present

- Own React/TypeScript frontends for enterprise platforms including ERP systems and national-scale logistics tooling, defining component architecture, coding standards and state-management patterns, with the Node.js/TypeScript services behind them.
- Lead architecture and code review across client engagements, producing technical specifications, UI and API documentation and implementation roadmaps, and setting up GitHub Actions CI/CD with automated build, test, deploy and rollback.

Consultant (Software Engineering) | Policy Innovation Centre | Abuja, Nigeria

May 2026 – Present

- Built the GS-26 Gender & Inclusion Summit delegate experience for 3,000+ delegates: a mobile-first Next.js PWA (TypeScript, Tailwind CSS, service workers, React Query) with a persistent bottom navigation, live-session dashboard, filterable two-day programme, Pitchathon voting, delegate networking, QR digital pass and push-notification inbox, plus a React Native iOS/Android app sharing typings and domain models with the web client.
- Led AI-assisted (vibe coding) build sessions for GS-26, prototyping the delegate PWA on Lovable and hardening it into a production TypeScript codebase with real-time WebSocket updates (votes, trivia, live status), a seven-tab admin console, tests, accessibility checks and CI/CD.
- Designed the summit's live accessibility captioning view: large adjustable text, high contrast, auto-scroll with scroll-back and screen-wake, fed by Deepgram streaming speech-to-text over WebSockets with Anthropic Claude generating labelled post-session summaries on the session detail page.
- Delivered the Behavioural Insights Lab Research Management System: three Next.js interfaces (Participant Portal, Researcher Console, Superadmin Control) with one-tap booking, self-service rescheduling, live KPI views and bulk schedule authoring, on a NestJS/MongoDB backend with a race-safe booking engine and pseudonymised participant IDs for IRB compliance.
- Delivered the AI Ethics & Governance Fellowship LMS across a Next.js admin and fellow web client and Expo mobile client, backed by a NestJS/Prisma/PostgreSQL API with 20 feature modules, five-role RBAC, code-generated OpenAPI contracts and an LLM-powered learning assistant surfaced in the UI.

Full Stack Developer | Access Beta | Remote (Canadian client)

Sept 2025 – Feb 2026

- Built React/TypeScript workflows for the MyKey insurance platform: the Adjuster Dashboard, ALE Simulator and a 24-step multi-tab claim submission flow with complex form and workflow state, and the customer-facing MyKey Hotel Self-Serve booking portal for displaced policyholders.
- Implemented real-time integration between booking flows and backend fair-value and billing services, including rate checking, availability management and automated reporting dashboards, on REST APIs and microservices he also maintained (Node.js, PostgreSQL, MongoDB, Redis).

Software Developer & ICT Engineer | Mercy Corps | Abuja, Nigeria

Aug 2024 – Sept 2025

- Built People Central (HR and contract management) and Ops Central (operations dashboard), dashboard-driven React interfaces for record-keeping, asset tracking and multi-site reporting across 5 offices, supporting the same users' Microsoft 365 environment for direct insight into real workflows.

Software Developer | Modibbo Adama University | Yola, Nigeria

Jan 2021 – Jul 2024

- Designed and built the UniElect e-voting platform: public-facing voting interface and admin/results dashboards with RBAC and audit trails for a 20,000+ user institutional environment.

Software Developer | Cyber-Data Automations Ltd | Abuja, Nigeria

Mar 2019 – Aug 2021

- Built React frontends with Node.js/Express APIs and authentication for process automation clients (MERN stack).

SELECTED FRONTEND PROJECTS

- **GS-26 Gender & Inclusion Summit Platform:** Mobile-first Next.js PWA and React Native apps for 3,000+ delegates with real-time voting, trivia and live status over WebSockets, offline schedule caching, QR pass, and AI-powered live captions and summaries.
- **MyKey Adjuster Flow & Hotel Self-Serve (Access Beta, Canada):** 24-step React/TypeScript insurance adjuster workflow, ALE Simulator and customer self-service booking portal with real-time rate and availability integration.
- **Behavioural Insights Lab Research Management System:** Three Next.js interfaces for participants, researchers and superadmins with one-tap booking, live KPIs and audit views on a race-safe MongoDB engine.
- **AI Fellowship LMS (Policy Innovation Centre):** Next.js admin and fellow web client and Expo mobile client for courses, assessments, live sessions, mentorship, forum and an LLM learning assistant.
- **Maizube Waters ERP:** React ERP with 40+ modules across HR, Finance, Operations and Employee Self-Service, including a browser-based employee portal.

EDUCATION

- Master of Technology (MTech), Computer Science, Modibbo Adama University of Technology, Yola, Nigeria (2019–2023)
- Bachelor of Science (BSc), Computer Science, Kwararafa University, Wukari, Nigeria (2013–2018)

CERTIFICATIONS

- IBM: Front-End Apps with React; JavaScript Programming Essentials; Back-End Apps with Node.js & Express; Git and GitHub; Software Engineering; Containers with Docker, Kubernetes & OpenShift; Cloud Native, DevOps, Agile & NoSQL. Google and Microsoft: IT Security: Defence Against the Digital Dark Arts; Cybersecurity and Privacy; Google, IBM and Microsoft IT Support Professional Certificates.