

Adedotun Gabriel

Front-End/Full-Stack Engineer (React | React Native | TypeScript)
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Summary

Front-End Engineer with **4+ years of experience** architecting high-performance web and mobile applications using **React, React Native, Next.js, and TypeScript**. Expert in building type-safe, scalable front-end architectures using **TanStack Query** and modern backend-as-a-service platforms (Supabase, Convex, Neon). Proven track record of leveraging AI-assisted workflows (Copilot, Antigravity) to accelerate development velocity by **10x** while maintaining rigorous code quality.

Technical Skills

- **Languages:** TypeScript, JavaScript (ES6+), Python, Java.
- **Frontend Core:** React, React Native, Next.js (App Router, Server Actions), Tailwind CSS, Framer Motion.
- **State & Async:** TanStack Query (React Query), Zustand, Context API.
- **Backend & DB:** Node.js, Express, PostgreSQL (Neon), MongoDB, Prisma ORM.
- **BaaS & Cloud:** Firebase, Supabase, Convex, Appwrite, Vercel, Netlify.
- **Tools & Design:** Git, GitHub Actions (CI/CD), Figma, Excalidraw, Jest, AI Development Tools.

Professional Experience

Front-End Engineer | SeamlessVisa | Remote | Jul 2023 – Dec 2025

Leveraging AI and modern form architecture to streamline U.S. immigration processes.

- **Engineered Dynamic Validation Engine:** Solved complex dependency issues in the N-400/600 immigration form. Refactored nested Yup conditional logic into a custom, reusable `onlyWhen` utility function. This reduced code complexity by **60%** and cut form submission errors by **45%**.
- **Real-Time Voice Architecture (FiBi):** Engineered a voice-to-voice agent using **WebSockets** to stream bidirectional audio chunks, replacing legacy text flows with smooth, **low-latency** playback.
- **Performance Optimization:** Implemented strict type safety and memoization across the application, ensuring 60fps performance even on complex, multi-step forms.
- **Design System Implementation:** Translated high-fidelity **Figma** prototypes into a pixel-perfect, responsive component library using **Tailwind CSS**, ensuring design consistency across the platform.

Front-End Engineer | MigranX (ProServants) | Remote | Oct 2022 – Present

Building mobile-first logistics and e-commerce solutions.

- **Mobile App Architecture:** Built the MigranX mobile application from concept to production using **React Native**.
- **Advanced API Integration:** Designed a robust data-fetching layer using **TanStack Query** combined with **Axios Interceptors**.
 - Implemented global request interception to automatically inject Guest-ID and Bearer tokens, ensuring secure context for every API call.
 - **Cost-Efficient Data Layer:** Implemented **TanStack Query** caching to eliminate redundant requests, triggering refetches only on server updates or payload changes to significantly reduce pay-as-you-go API costs.
- **Real-Time Features:** Integrated backend APIs for real-time order updates and tracking, working closely with backend engineers to define JSON contracts and error handling standards.
- **Rapid Prototyping:** Utilized **Excalidraw** for flow diagramming and **AI tools** to rapidly iterate on features based on immediate user feedback.

Projects

[Momentum Logistics Service \(MLS\)](#) | *Next.js, TypeScript, Tailwind CSS, Backend, Third-Party APIs*

- Architected a full-stack logistics platform integrating third-party freight APIs to automate shipping estimates and tracking.
- Designed and deployed a high-conversion marketing frontend with pixel-perfect UI; the superior design quality led to a **contract value increase** and extended scope from the client.
- Implemented a unified design system that ensures visual consistency between the marketing app and the internal web application

[Scholarle](#) | *Next.js, Tailwind CSS, Advance Search Heuristics*

- Developed a specialized query builder for Google Scholar that simplifies complex boolean search logic for researchers.
- Built a dynamic string generation engine that constructs precise search URLs, eliminating the need for manual operator typing and improving search relevance.
- **Live Product:** Published and actively helping users refine academic search queries with a user-friendly GUI.

[Imelda Yayala Website](#) | *Next.js, Tailwind CSS, Framer Motion*

- Developed a high-performance portfolio site with a perfect 100 Lighthouse score.
- Implemented complex animations using Framer Motion to drive user engagement.

[PlantSnap](#) | *React Native, Expo, Third-party AI API*

- Built a plant recognition mobile app achieving a **95% accuracy rate** on test datasets.
- Optimized image compression and upload handling for low-bandwidth environments.

Education & Certifications

- **B.Sc. Computer Science (Ongoing)** | University of the People | *2023 – Present*
- **Product Experimentation Micro-Certification** | Product School | *2025*