OLATUNJI PETER

Full-Stack Software Engineer | React · Next.js · TypeScript · Node.js

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Portfolio: mydevpeter.netlify.app · GitHub: Peteru2 · LinkedIn: Peter Olatunji

PROFILE

Software Engineer with **4+ years** of experience designing, building and shipping full-stack web applications that are **live in production with real users**. I own features end to end, from **architecture decisions**, **REST API and database schema design** through to **authentication, payments, caching and deployment**. Built **Buydair** (formerly Bankoo), a fintech wallet app with Paystack funding, webhook verification, automated refunds and live airtime and bill payments, and a **LAN-based CBT system** that runs fully offline and is used by **1,000+ students**. Experienced mentor who explains complex technical ideas clearly, focused on clean, maintainable code that solves real business problems.

System Architecture	**REST API Design**	**Database Schema Design**	**Auth & Security**
Caching & Performance	**CI/CD & Deployment**	**Offline / LAN Systems**	**Fintech Integrations**

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, PHP, SQL, HTML5, CSS3
Frontend	React, Next.js, Tailwind CSS, Material UI, Zustand, TanStack Query, Zod, Framer Motion, Vite, Bootstrap
Backend	Node.js, Express.js, Laravel, RESTful APIs, Socket.IO, JWT, OAuth
Databases	MongoDB, Mongoose, PostgreSQL, MySQL
Payments	Paystack, VTU APIs, Webhooks, Cloudinary, Resend
DevOps & Tools	Git/GitHub, Docker, CI/CD, Vercel, Netlify, Postman, LAN deployment

PROFESSIONAL EXPERIENCE

Software Engineer (Full-Stack) & Technical Educator

Current Role

JAARC

- Architect, build and deploy web platforms that support the organisation's educational programmes and operations, including **jaarc.org**, live in production.
- Built an offline computer-based testing system used by **1,000+ students**, running entirely on a local network with no internet dependency.
- Design REST APIs and MongoDB schemas for the content-management backend (services and projects), secured with JWT/OAuth authentication.
- Build responsive, reusable React/Next.js components, improving load performance and usability across devices.
- Mentor **10+ students** in HTML, CSS, JavaScript, React and digital literacy, turning complex concepts into practical, hands-on learning.

Stack: React, Next.js, Tailwind CSS, JavaScript, Node.js, Express.js, MongoDB

Full-Stack Engineer (Remote)

Dec 2023 – May 2025

African Group, Nigeria

- Owned the frontend architecture on React and Next.js, setting the structure for components, state management and data flow.
- **Improved page performance by 40%** through refactoring and targeted optimisation.
- Integrated frontend applications with Node.js/Express APIs, ensuring reliable data flow between client and server.
- Contributed across the stack, from backend endpoints to production deployment.

Stack: React, Next.js, Tailwind CSS, JavaScript, Node.js, Express.js, MongoDB

Full-Stack Developer (Remote)

2023

Lyncs Africa, Nigeria

- Built dynamic UI components for sales and analytics dashboards.
- Integrated APIs to visualise real-time sales-flow data for business users.
- **Reduced system errors by 30%** by improving frontend–backend communication.
- Took part in code reviews and helped enforce engineering best practices.

Stack: React, JavaScript, Tailwind CSS, PHP, MySQL

Software Developer (Frontend & Backend, Remote)

Aug 2022 – Dec 2023

Genelyst, Nigeria

- Built user interfaces and reusable component libraries with React and TypeScript, improving UI consistency.
- Integrated the frontend with backend APIs and **improved application performance by 30%**.
- Implemented responsive layouts across the product.

Stack: React, TypeScript, Tailwind CSS

Frontend Developer Intern

Jul 2022 – Aug 2022

Dignity Technology, Nigeria

- Developed the responsive UI for a note-taking application, including forms, modals and interactive components.
- Improved accessibility and responsiveness across screen sizes; took part in team code reviews.

Stack: HTML, CSS, JavaScript, Bootstrap

SELECTED PROJECTS

Buydair (formerly Bankoo) — Fintech Wallet App · buydair.netlify.app

Live · Real users

- Solo-built a full-stack wallet app for airtime, data, electricity and TV purchases, with **wallet-to-wallet transfers** and full transaction history.
- Integrated **Paystack** wallet funding verified by webhooks, with automatic re-checking of stuck purchases and audited refunds for failed transactions.
- Integrated a VTU API so users make real airtime and data purchases directly from the app.
- Designed the security layer: JWT and OAuth authentication, **encrypted transaction PIN** and protected API routes.
- Designed the REST API and MongoDB schemas for users, accounts and transactions; added free scam-awareness courses with verifiable certificates.

Stack: React, Node.js, Express.js, MongoDB, Paystack, JWT, OAuth, VTU API, Tailwind CSS

LAN-Based CBT System — Offline Computer-Based Testing

Offline · No cloud · 1,000+ students

- Built a computer-based testing platform that runs entirely over a **local area network**, with no internet or cloud dependency, for exam settings with limited connectivity.
- Owned the architecture, API and database design for reliable offline operation on local infrastructure.

Stack: Full-stack web application deployed on a local network

TWC Website · twcglobal.org

Live · Real users

- Responsive website with a custom admin backend for publishing and managing sermons, events and updates, including sermon streaming and downloads.

Stack: React, Node.js, Express.js, MongoDB, JWT, OAuth, Tailwind CSS

Offline Voting System · GitHub

Academic

- Secure offline voting system for academic elections, designed for data integrity and reliability.

Stack: HTML, CSS, PHP, MySQL

EDUCATION & LANGUAGES

B.Sc. Computer Science — Ekiti State University, Nigeria *2018 – 2022*

English — Fluent