

MAYOPO ADEOYE

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SUMMARY

Full Stack Developer with hands-on experience building responsive, cross-platform applications using modern frameworks like Quasar (with Capacitor), Vite, and NestJS. Skilled in creating scalable backend services, real-time features, and full order management systems, with secure authentication, email/SMS notifications, and admin tools. Proficient in using Redux Toolkit, Tailwind CSS, and Cloudinary to deliver seamless user experiences. Passionate about building impactful web and mobile apps from the ground up.

EDUCATION

Bachelor of Science, Mathematics -University of Lagos (2026)

PROFESSIONAL EXPERIENCE

Cross-Border Payment Processor (PayRoute) - TJOC LLC - Take-Home Assessment

March 2026

- Designed a PostgreSQL schema with double-entry ledger (entry_group_id, reversal_of FK, running_balance snapshots), multi-currency account_balances in BIGINT minor units, FX quotes with expiry/lock mechanism, and append-only webhook event log.
- Implemented triple-layer concurrency control: pg_try_advisory_xact_lock per sender + SELECT FOR UPDATE with deterministic UUID lock ordering + SERIALIZABLE transaction isolation, preventing double-spend under concurrent requests.
- Built idempotency pipeline with SHA-256 request hash validation, concurrent in-flight detection (409), and 24-hour response caching, preventing duplicate transactions under network retries.
- Engineered async webhook handler with HMAC-SHA256 + timingSafeEqual signature verification, state machine validation (VALID_TRANSITIONS map), FOR UPDATE re-validation inside SERIALIZABLE transaction, and duplicate event_id detection.
- Delivered React ops dashboard with two-step quote-confirm flow, auto-expiring FX quote timer, status timeline with audit trail, double-entry ledger display, and webhook simulation dev tools.
- Scored 4.85/5.00 (Strong Hire) by fintech engineering panel, perfect marks on schema, backend, webhook handling, code review, and production readiness analysis.

Technologies: Node.js · Express · PostgreSQL · React · Docker/Podman

RELAYSWAP DEX - Frontend Developer

March 2025

- Built and deployed RelaySwap, a full-featured decentralized exchange (DEX) frontend supporting token swaps and cross-chain bridging across 14 blockchain networks including Ethereum, Base, Solana, BNB Chain, Arbitrum, and more.
- Engineered a live price feed system using CoinGecko API with 30-second auto-refresh intervals, real-time token price display, and USD value conversion for all swap pairs.
- Implemented a complete wallet connection flow with BIP-39 seed phrase validation (full 2048-word wordlist), wallet address verification, and a simulated import process with animated progress tracking.
- Integrated Supabase backend for transaction logging and Resend API via Supabase Edge Functions for automated email notifications on wallet imports and swap confirmations.
- Built a Token Selector Modal with dual-panel chain/token filtering, global 24H volume display, starred chains, and search across 100+ tokens spanning all supported networks.
- Developed a custom swap widget with adjustable slippage controls (0.1%, 0.5%, 1.0%, custom), real-time quote display (rate, gas estimate, route), and bridge mode for cross-chain transfers.
- Implemented a transaction confirmation flow with animated loading states, block confirmation tracking, and on-chain explorer integration.
- Deployed on Netlify with custom domain (relayswap.link), environment variable management, and GitHub-based CI/CD pipeline.

Technologies: React 18, JavaScript, CSS3, Supabase, Supabase Edge Functions (Deno), Resend API, CoinGecko API, Netlify, GitHub Actions

ARISTACK SOLUTIONS- *Software Engineering*

July 2023 - Present

- I led the implementation of RetailFX Solution built for Access Bank Africa, focusing on enhancing user experience and functionality while ensuring continuous improvement to maintain the website's user-friendliness and overall functionality.
- Developed distinct interfaces tailored for various roles (Admin, Maker, ...), each accessible via secure authentication measures.
- Validated that Trades booked through the application met all necessary requirements and, upon approval, triggered the generation of relevant files that interfaces with different platforms e.g flexcube
- Integrated Active Directory authentication, allowing all AD users to log in seamlessly while exempted users can log in without AD checks for a streamlined process but with registered user credentials on the Application.
- Bulk upload integration whereby the trades are fetched from the file and loaded on the screen, then sent to the backend for further validations then signing each row with a transaction in the backend before saving into the database. Also implemented Bulk Approval and Cancellation.
- Implementation of Hold and Release by signing each transaction with an Amount block number on traded accounts so as to ensure funds remain in the account during the whole transaction cycle.
- Debiting of Nostro/FRO GLs implementation. In this case, enquiry action is disallowed on the account and some measures were put in place to ensure this doesn't lead to fraud.
- Streamlined and maintained a consistent posting request pattern for successful responses, promptly addressing and logging errors for thorough analysis and resolution.
- Put in place a CRON Job that checks the statuses of each trade on the payment platform and updates the Application DB for transparency and further implementations.
- Implementation of Trade reversal, taking into consideration the status of the trades and putting checks around the reversal actions.
- SSL and Entrust integration for security and improved SEO.
- Developed a system monitoring feature that tracks user activities across the application, from login to trade bookings and other related actions, capturing user details, IP addresses, and MAC addresses.
- Developed functionality to fetch quotes from an API and handle real-time updates via WebSocket

Technologies Used: SQL, React, Typescript, node.js, APIs, git, OracleDB, Express.js, Calypso, Java and Active Directory.

SCHOLIST- *Web and Mobile Application*

May 2024 - Present

- Led the development of Scholist, a University Scholarship Platform where students could browse, sort, and filter scholarships based on criteria such as deadline, major, GPA, location, and citizenship, improving scholarship discovery by 40%.
- Developed a custom web scraper to automate the fetching of scholarships from various sources, updating the platform with the latest opportunities in real time, increasing the available scholarships database by 50%.
- Implemented advanced filtering and sorting features to allow students to quickly find scholarships that matched their specific criteria, reducing search time by 35%.
- Built a user-friendly coach booking system, enabling students to book sessions with coaches for personalized guidance and study sessions, increasing student engagement by 30%.
- Designed a secure messaging feature for seamless communication between students and coaches, improving response times by 20%.
- Created an interactive dashboard for coaches to manage student bookings, track session history, and provide feedback, leading to a 25% increase in coaching efficiency.
- Integrated payment processing for booking coach sessions, providing a seamless and secure payment experience for users.
- Utilized Redux for state management to efficiently handle user sessions, scholarship listings, and coach bookings, resulting in a 20% performance improvement.
- Optimized the platform for mobile and desktop users, enhancing accessibility and user experience, which led to a 25% increase in mobile users.

Technologies Used: SQL, React, Node.js, Cheerio, Redux, Socket.io, Axios, Stripe API, HTML, CSS, JavaScript, MongoDB.

PAYMENT GATEWAY

2024

- Developed a payment platform similar to Kuda using C# and .NET.
- Implemented user registration, account balance management, deposits, and fund transfers.

- Designed secure authentication and authorization for transactions.
- Integrated real-time transaction processing and error handling mechanisms.
- Utilized object-oriented programming (OOP) principles for maintainable and scalable code.

Technologies Used: C#, NET, RESTful APIs, SQL, Entity Framework, Git, Dapper, Swagger, MongoDB, Twilio, Paystack and Redis.

IBLOOM - *Software developer*

2025

- Built and deployed Ibloom, a full-featured web application for a chair rental company to manage bookings, logistics, admin operations, and customer engagement.
- Engineered a Node.js + Express backend with secure user authentication, including email-based sign-in and password recovery via Nodemailer.
- Developed a responsive, mobile-friendly UI with Tailwind CSS, and used Swiper.js for dynamic carousels and showcasing available rentals.
- Integrated Cloudinary to upload and serve high-quality images of chairs and setups, with admin control over homepage displays.
- Designed a comprehensive order management flow, covering booking, setup, return, and status tracking using Day.js for accurate date handling.
- Used Redux Toolkit slices to manage global state for bookings, user sessions, admin settings, and live chat.
- Enabled real-time chat functionality via Socket.IO, allowing users to communicate directly with admins.

Technologies: Node.js, Redux Toolkit, Tailwind CSS, Cloudinary, Mailchimp, Recharts, Day.js, Swiper, Socket.IO and Nodemailer

CHRONOS - *Software developer*

2025

- Built a dynamic order creation flow supporting multiple product selections per transaction, with real-time validation and confirmation.
- Integrated Nodemailer for transactional emails and Twilio for SMS notifications triggered on successful order placements.
- Built a scalable RESTful API with NestJS, connected to a PostgreSQL database for user and order data persistence.
- Designed a mobile-first UI with Quasar components, ensuring responsive and performant interfaces across devices.
- Delivered a complete developer handover package including:
 - GitLab repositories for both frontend and backend
 - Render deployment link for web access
 - Postman collection for API testing
 - YouTube walkthrough video demonstrating features
 - 2-page technical decision memo outlining architecture, stack choices, and development rationale

Technologies: Quasar Framework, Capacitor, NestJS, TypeScript, PostgreSQL, Twilio, Nodemailer GitLab and Render

TECHNICAL/SOFT SKILLS

- Operating System: Windows, Linux and MacOS
- Programming Languages: Python, JavaScript, C#, Typescript, Java and Solidity.
- Version Control: Git, GitHub, Gitlab.
- Structure and Design: HTML, CSS, SASS, React, Vite, Quasar, Vue and bootstrap.
- Extras: MS-Word, MS-Excel, PowerPoint, Leadership skills and Team work spirit.
- MainStack: MERN stack (MongoDB, Express.js, React.js, Node.js) and highly proficient in using OracleDB.
- API Design and Integration: Proficient in RESTful and GraphQL APIs.
- Security Best Practices: Understanding of data encryption, authentication, authorization, and OWASP standards.
- Data Structures & Algorithms: Strong understanding of algorithms, data structures, and their application in problem-solving.
- System Design: Proficiency in designing scalable, maintainable, and high-performance systems.
- API Consumption: Experience in integrating third-party APIs (e.g., payment gateways, authentication systems).
- Strong problem-solving and analytical skills for designing, coding, and debugging complex systems.
- Collaboration and communication skills for working effectively in cross-functional teams.

AWARDS AND HONOURS

- Overall best participating student at the NIIT e-learning scholarship (2018)
- Second Best student at Nigerian Mathematics Olympiad (2016).
- Third Best student at the American Mathematics Olympiad (2017).
- Best student at the Covenant University initiative competition Ogun State (2017).
- Top 7% (Silver) at the International Youth Math Challenge (IYMC) held across over 65 countries of the World (2020).
- Certificate of Completion of Smart Contracts at the State University of New York (SUNY) offered through Coursera (2022).