

## AJAO OLUWASEUN

Frontend Engineer (Web3 & Performance-Focused)

Lagos, Nigeria

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[GitHub](#) · [Portfolio](#) · [LinkedIn](#)

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### PROFESSIONAL SUMMARY

Frontend Engineer with 3+ years of experience building production-grade web applications and Web3 dApps using React, Next.js, and TypeScript. Specialized in performance optimization, real-time systems, and blockchain-integrated interfaces. Proven track record of delivering scalable user-facing applications used by 500+ users, integrating secure payment systems, and building end-to-end decentralized applications with custom smart contract logic.

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### TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3, Rust (smart contracts)

Frontend: React, Next.js, Vite, Tailwind CSS, Zustand

Web3: CCC Wallet Connector, CKB SDKs, WalletConnect

Blockchain: Nervos CKB, RPC/Indexer integration, Molecule encoding

Backend: Node.js, Express, PostgreSQL, Prisma, WebSockets

Tools: Git, Vercel, Figma, REST APIs, JWT Auth

Concepts: Performance Optimization, Code Splitting, Real-Time Systems, Secure Payments, On-chain Data Handling

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### PROFESSIONAL EXPERIENCE

Frontend Developer - Analytica Haven (Remote)

*Jan 2025 - Present*

- Led frontend development and deployment of a production web application serving 100+ users, improving system responsiveness and usability
  - Reduced page load time by ~35% through code splitting and lazy loading strategies, improving performance metrics and user retention
  - Built scalable UI components.
  - Deployed and maintained production builds, ensuring stability and performance across devices
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## Freelance Frontend Developer

*Jan 2025 - Present*

- Delivered 4 paid client projects, including hospitality and fintech-related platforms, focusing on performance, SEO, and UI/UX optimization
  - Built and deployed a full-stack hotel management system used by 500+ users, featuring:
    - JWT-based authentication system
    - Flutterwave payment integration for bookings
    - Real-time booking dashboard for staff
  - Developed high-performance landing pages and business websites with optimized load speed and responsive design
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## Frontend Developer - Savetown (Team Project)

*2025*

- Built the user dashboard for a digital cooperative platform serving 500+ users
- Improved application performance using lazy loading and code splitting, reducing load times and improving user experience

- Collaborated cross-functionally with backend, mobile, and design teams to deliver version 2 of the platform
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IT Support - Trinity Financial Services Limited

*Feb 2022 - Oct 2025*

- Maintained internal systems and ensured high uptime for company infrastructure
  - Provided technical support and troubleshooting for staff systems and software
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## **BLOCKCHAIN PROJECTS**

InheritVault - Time-Locked On-Chain Inheritance dApp (CKB)

*(Full-stack + Smart Contract Developer)*

- Built a decentralized vault system enabling users to lock funds on-chain for future beneficiaries using time-based conditions
- Developed custom Rust smart contracts (lock + type scripts) enforcing secure inheritance logic and transaction validation
- Implemented full frontend integration with CKB RPC and indexer, enabling:
  - Vault creation, verification, and claims
  - On-chain data encoding using Molecule
- Solved complex blockchain challenges including:
  - Synchronizing TypeScript frontend encoding with Rust contract parsing
  - Handling unreliable indexers with fallback mechanisms
  - Secure claim execution without wallet-side transaction manipulation
- Built and tested system with 15+ smart contract tests and frontend validation suites

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## PactAgent — Autonomous Milestone-Based Payment Platform (CKB)

*(Full-stack Developer — Web3 + Backend Systems)*

- Developed a decentralized-inspired payment platform enabling milestone-based payments with automated execution workflows
- Built full-stack system with:
  - Next.js frontend + Zustand state management
  - Express backend with PostgreSQL and Prisma
  - WebSocket-based real-time updates
- Implemented:
  - Wallet-based authentication with signed challenge verification
  - Agreement lifecycle system (funding → proof → payout → dispute)
  - AI-assisted workflow for milestone validation and payout decisions
- Designed secure MVP architecture using treasury-based custody model to simulate escrow before full smart contract deployment
- Solved key challenges:
  - Reliable wallet authentication and session handling
  - Safe transaction flow with validation and failure handling
  - Real-time synchronization between backend state and blockchain events

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## **OTHER PROJECTS**

Hotel Management System (Full-Stack)

- Production system used by 500+ users for booking and administration
- Built with React, Node.js, PostgreSQL
- Features: authentication, payments, real-time dashboard

Memecoin Platform (iapedtoken.com)

- Integrated real-time crypto price, volume, and liquidity tracking

- Built dynamic UI for live blockchain data visualization
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## **EDUCATION**

Higher National Diploma (HND), Computer Science

Yaba College of Technology — Lagos, Nigeria (2025)