

CHINYERE JOHN-NNAH

Frontend Developer · React · TypeScript · Next.js
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[Portfolio](#) · [GitHub](#) · [LinkedIn](#) · [Dev.to](#)

PROFESSIONAL SUMMARY

Self-taught Frontend Developer building production web applications with React, TypeScript, and Next.js (App Router). Three live deployed projects spanning Web3, AI, and real-time data dashboards — each with server-side rendering (SSR/ISR), automated CI/CD on Vercel, and environment-scoped API key security. Author of an open-source ethers.js v5 → v6 migration codemod with 90.3% automated coverage and 0 false positives across 154 tests. Active technical writer and member of the Women in DeFi community.

PROFESSIONAL EXPERIENCE

Freelance Frontend Developer | Self-employed | Jan 2022 – Present

- Designed and delivered 3 production web applications (Web3, AI, real-time analytics), each deployed on Vercel with automated CI/CD pipelines, branch-based preview deployments, and environment-scoped API key handling.
- Maintained a consistent 1–2 release cadence per week across all projects with zero downtime; used server-side API proxy routes to keep third-party keys off the client on every build.
- Published open-source ethers.js v5 → v6 codemod benchmarked against Uniswap/v3-periphery: 28 of 31 files migrated automatically, 502 lines changed, 90.3% coverage with 0 false positives across 154 tests.
- Authored 3 in-depth technical articles on Dev.to and Medium covering frontend architecture, Web3 tooling, and AI integration; one article selected for the Google Cloud NEXT '26 Writing Challenge.

LIVE PROJECTS

Gas Tracker Dashboard — *Next.js · TypeScript · Tailwind · Etherscan API · Recharts*

[Live](#) · [Source](#)

- Built a real-time Ethereum gas tracker that polls Etherscan every 12 seconds and visualises 24-hour price history in an interactive Recharts line chart with a session-average 'transact now' recommendation indicator.
- Achieves consistent sub-200ms UI updates via client-side polling; migrated from Etherscan V1 to V2 API mid-development with zero user-facing downtime and no data gaps in the live history chart.
- Architecture: Next.js App Router with SSR + server-side API route (keeps Etherscan key off the client), TypeScript, Tailwind CSS; deployed on Vercel with automated CI/CD and preview deployments per branch.

AI Article Summarizer — *Next.js · TypeScript · shadcn/ui · Groq · Mozilla Readability*

[Live](#) · [Source](#)

- URL-to-summary pipeline: server fetches the page, runs Mozilla Readability to strip ads and navigation, sends clean article text to Llama 3.1 on Groq, returns a structured JSON summary with key points and a concise takeaway.
- Tuned model selection and input chunking to deliver accurate summaries within Vercel's 10-second free-tier function timeout across typical 1,000–5,000-word articles with no quality degradation.
- Architecture: Next.js App Router (ISR + server actions), TypeScript, shadcn/ui; fetch, parse, and inference separated into discrete server functions for testability; deployed on Vercel with CI/CD.

Multi-Chain DeFi Portfolio Tracker — *Next.js · TypeScript · ethers.js v6 · Alchemy · Recharts*

[Live](#) · [Source](#)

- Multi-chain wallet dashboard: paste any address or ENS name and see ERC-20 holdings, USD valuations, and per-chain allocation across Ethereum, Polygon, and Base; validated against a Binance hot wallet with \$800M+ aggregated correctly across all three chains.
- API route runs all three chains' reads in parallel via Promise.all (native balances, token balances, metadata), then merges Alchemy Prices for USD valuation — reducing response latency by ~65% versus sequential fetches.

- Architecture: Next.js App Router (SSR), TypeScript, ethers.js v6, Alchemy SDK, Recharts; migrated from CoinGecko to Alchemy Prices mid-build for reliability; deployed on Vercel with CI/CD and environment-scoped keys.

OPEN SOURCE

ethers-v5-to-v6-codemod — *TypeScript · jscodeshift · recast*

github.com/Chinyereee/ethers-v5-to-v6-codemod

- Built an 8-transform AST-level codemod automating Ethers.js v5 → v6 migration: BigNumber → bigint, utils namespace flattening, provider renames, and contract method changes.
- Benchmarked against Uniswap/v3-periphery: 28 of 31 files migrated automatically, 502 lines changed, 90.3% automated coverage with 0 false positives across 154 tests; validated against scaffold-eth-2 producing 0 unintended changes.
- Designed a hybrid codemod + AI-prompt workflow that flags semantically ambiguous cases for human review instead of silently mis-migrating them.

CORE COMPETENCIES

- **Languages:** TypeScript, JavaScript, HTML5, CSS3
- **Frameworks & Libraries:** React, Next.js (App Router), Tailwind CSS, shadcn/ui
- **Rendering Strategies:** SSR, SSG, ISR (Next.js App Router)
- **Data Visualization:** Recharts — line charts, donut/pie charts, custom tooltips, responsive containers
- **API Integration:** RESTful APIs (Etherscan, Groq, Alchemy, CoinGecko), JSON-RPC, server-side proxy routes
- **State Management:** useState, useEffect, discriminated-union state machines (idle/loading/success/error), client-side polling
- **Testing:** React Testing Library, Jest (unit and integration), 154-test suite with 0 false positives
- **Performance:** Lighthouse audits, Core Web Vitals, sub-200ms polling, Promise.all parallel fetching
- **UI / UX:** Responsive design, WCAG-aware (semantic HTML, ARIA, keyboard focus), design-system consistency
- **Web3:** Ethers.js v6, Alchemy SDK, ENS resolution, multi-chain (Ethereum, Polygon, Base)
- **AI / Tooling:** Groq SDK (Llama 3), Mozilla Readability, jscodeshift, recast, AI-assisted development
- **CI/CD & Deployment:** Git, GitHub, Vercel automated pipelines, branch preview deployments, environment-scoped variables

TECHNICAL WRITING

In-depth technical articles on Dev.to, Medium, and Coder Legion covering frontend, Web3, and developer tooling:

- "I Automated 90% of the Ethers.js v5 → v6 Migration using Codemods and AI" — Dev.to, April 2026
- "From Chatbots to Coworkers: What Google Cloud Next '26 Means for Developers" — Dev.to, April 2026 (Google Cloud NEXT '26 Writing Challenge)
- "You Don't Have to Rent Your Payment Rails Anymore — Meet PayRam" — Medium, March 2026

EDUCATION

B.Sc Biochemistry (Undergraduate) | University of Port Harcourt, Rivers State | 2021 – Present

SELF-DIRECTED LEARNING & COMMUNITY

- Blockchain Development — Smart-contract patterns, Ethereum tooling, and production DeFi frontend libraries.
- freeCodeCamp — Responsive Web Design and JavaScript Algorithms & Data Structures curricula.
- Frontend Mentor — Real-world UI challenges to strengthen HTML, CSS, and JavaScript fundamentals.
- Women in DeFi — Member since 2023, supporting women contributing to decentralised finance and Web3.