

Udoagwa Franklin

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EDUCATION

- **Bachelors of Engineering, University of Lagos. 2024**

Majors. Electrical & Electronics Engineering. Cumulative GPA: **4.23/5.0**

Relevant Coursework: Linear Algebra, Calculus, Data Structures & Algorithms, Programming with C++, Control Systems, Communication Systems.

SKILLS

- **Programming Languages:** Typescript, Rust, Python, Solidity, SQL.
- **Front-End Frameworks and Tools:** React JS, Next.js, React Native, Redux, Redux Toolkit, React-Query, React testing Library, Jest, Axios, CSS, SCSS, Tailwind CSS, Radix UI, ShadcnUI, Vue JS, Nuxt, Pinia.
- **Back-End Frameworks and Tools:** Node, Express, Nestjs, Axum, FastAPI, Postgres, MYSQL, Mongo DB.
- Experience using Kubernetes, Linux, Git, AWS, Docker, Shell scripting.

WORK EXPERIENCE

Oyster Skin Technologies (Mar. '25 - Present)

Product Engineer

- Sole engineer responsible for architecting and delivering the entire Oyster mobile application, including build systems, release processes, and successful deployments to the App Store and Play Store with 1000+ downloads on launch.
- Led the end-to-end design and development of Oyster's vendor web application, public waitlist site, and main website, establishing the frontend architecture and standards used across the company.
- Worked closely with founders, product, design, and ML teams to drive rapid iteration, translate business needs into technical decisions, and maintain high engineering quality under fast-moving startup timelines.

Konga Online Shopping Ltd. (Oct. '24 - Mar' 25)

Frontend Engineer

- Led frontend engineering in a lean 3-person team to build Konga Search Service (KSS), a search and indexing platform that replaced Algolia, reducing search and indexing operational costs by 70%.
- Architected the overall frontend architecture for KSS, defining state management strategy, component design patterns, and performance standards to ensure scalability from MVP to production.
- Delivered advanced search features including RBAC, faceted search, real-time filtering, and pagination, optimized to handle 1M+ records under 500ms latency.
- Elevated React performance through heavy use of memoization and caching, minimizing re-renders, and isolating complex logic into reusable custom hooks.
- Designed and introduced a unified component library, ensuring UI/UX consistency across the search platform and accelerating onboarding for new contributors.
- Established engineering best practices by setting up unit and integration tests (Jest, React Testing Library, API mocking), adopting Tanstack Query for efficient data fetching and caching, Zod for schema validation, React Hook Form for complex forms, Prettier + pre-commit hooks for code quality, and strict PR review standards.
- Mentored teammates and interns, conducting code reviews, pair programming sessions, and knowledge-sharing workshops to strengthen the team's technical depth.

Afrihealth (Sept. '23 - Oct' 24)

Software Engineer

- Led frontend development of Hydra, an EMR platform adopted by 100+ hospitals, built with React + TypeScript, delivering an intuitive interface for doctors, nurses, and administrators.
- Designed scalable UI flows for patient registration, online consultations, and hospital workflows, reducing onboarding friction for medical staff.

- Engineered reusable component abstractions (forms, tables, charts, dashboards), improving development speed and maintainability across modules.
- Optimized React performance by implementing memoization, virtualized lists, lazy-loaded modules, and caching strategies to ensure smooth handling of large patient datasets.
- Partnered with backend engineers on Node.js + PostgreSQL APIs, improving data-fetching efficiency and reducing SQL query latency by 50%.
- Implemented JWT-based authentication and role-based access control, securing sensitive patient and staff data in compliance with healthcare standards.
- Enhanced system resilience with error boundaries, retry/fallback strategies, and offline-first patterns for better reliability in low-connectivity environments.

OPEN SOURCE CONTRIBUTIONS

- Reth (Rust Ethereum full node implementation) [View Contributions](#)
- Alloy (High-performance Rust toolkit for Ethereum and EVM-based blockchains) [View Contributions](#)
- Viem (TypeScript Interface for Ethereum) [View Contributions](#)
- REVM (Rust Ethereum Virtual Machine) [View Contributions](#)

PORTFOLIO PROJECTS

- Oyster Skincare on Playstore [Playstore link](#)
- Oyster Skincare on Appstore [Appstore link](#)
- Creative frontend developer for Varsi website tryvars.com
- Creative frontend developer for Oyster, waitlist and main website waitlist.oysterskin.com oysterskin.com
- Fullstack developer for Hydra. customer.gethydra.io/ provider.gethydra.io gethydra.io
- Maintained konga.com and built other in house projects at Konga.
- Fullstack engineer for GidiCredit app.gidicredit.com.ng

LEADERSHIP POSITIONS HELD & ACADEMIC AWARDS

- General Secretary, Society of Electrical and Electronics Engineering, University of Lagos (2023/2024)
- Volleyball Team Captain, Finalists, Society of Electrical and Electronics Engineering, University of Lagos (2024)
- NNPC/TOTAL National Merit Undergraduate Scholarship (2019 - 2024)
- Awardee, Petroleum Technology Development Fund(PTDF) Scholarship 2019