Iwinosa Osagie-Okah

Software Engineer

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ABOUT ME

Full-Stack Software Engineer with over 5 years of experience, skilled in modern frontend frameworks including React, Next, js, Astro, styling libraries such as TailwindCSS and PandaCSS, as well as build tools such as Vite for optimized builds. I also possess a strong foundation in backend development using Node.js, Express.js, NestJS, FastAPI, and also Django. Proficient in database management with PostgreSQLs. Experienced in creating responsive, user-friendly web applications, integrating Web3 technologies with Web3.js and Ethers.js, and building robust backend systems. Passionate about delivering scalable, maintainable solutions that ensure seamless, high-performance user
experiences across the entire stack.

EXPERIENCE

Frontend Engineer, *Nannify* 06/2025 – Present

Contracted as the lead frontend engineer on building a Nanny booking platfrom.

- Resolved critical authentication issues, and integrated Google OAuth to improve the user login and registration experience.
- Restructured the existing codebase for better maintainability and scalability, streamlining the onboarding process for new developers and reducing technical debt.
- Built reusable and performant functional components with Chakra UI, ensuring design consistency, faster development, and improved application performance.
- Utilized Valtio to manage global application state, enabling seamless data sharing between functional components.
- Implemented real-time messaging functionality using WebSockets, enabling parents and nannies to communicate instantly within the platform.
- Collaborated closely with cross-functional teams to define and deliver new features, ensuring alignment with business goals and user needs.
- Integrated backend APIs using Axios, optimizing request handling, improving error management, and ensuring smooth data flow between the frontend and server.
- Improved UI consistency, responsiveness, and accessibility across the app by refactoring key components and applying design best practices.
- Promoted development best practices through, improved documentation, and enforced strong typing across the frontend for safer, more maintainable and predictable code.

Fullstack Engineer, *Hivemind* 07/2025 – 08/2025

Contributed across the Frontend and Backend (both in Typescript) to enhance system performance, data integrity, and user experience. Focused on optimizing frontend responsiveness, securing backend processes, and integrating GraphQL APIs with Hasura and Apollo for efficient, type-safe data access.

- Optimized SEO performance by enhancing page metadata and improving LCP (Largest Contentful Paint) through lazy loading and responsive image optimization techniques.
- Integrated Hasura GrapQL APIs with Apollo Client on the Frontend to enable real-time type-safe queries and mutations.
- Validated audio data through browser native AudioContext API and RMS calculations before database persistence, preventing malformed inputs and ensuring consistency.
- Improved frontend error handling to deliver precise validation feedback, preventing submission of invalid or incomplete user input.
- Actively participated in agile development workflows via Lark, contributing to daily standups and collaborative discussions to maintain alignment and deliver features efficiently.
- Utilized Git for efficient version control, managing feature branches, resolving merge conflicts, and collaborating seamlessly with team members through pull requests and code reviews.
- Resolved email delivery issues by correctly configuring SMTP and Google OAuth for each user enabling the notification service, ensuring authenticated senders and reliable email dispatch.

WEB3 Dapp Developer, *Nexpad* 06/2025 – 08/2025

EVM-based token launch platform built on Lisk, enabling the deployment and management of ERC-20 tokens with integrated Uniswap-style liquidity pools and wallet connectivity. Implemented wallet integration using Wagmi and enhanced state management with TanStack Query for responsive and reliable user session handling.

- Developed and deployed ERC-20-compliant smart contracts in Solidity to support custom token creation workflows with minting, burning, and ownership features.
- Integrated Uniswap V2 and V3 forked contracts to support both standard and concentrated liquidity pools, enabling users to add/remove liquidity from existing or new pools .
- Built a responsive and high-performance frontend using **Vite**, **React**, and **Inertia.js**, styled with **TailwindCSS** and componentized using **shadcn/ui** for consistent design and modularity.
- Implemented wallet connectivity and state management using Wagmi, Viem, and Ethers.js, leveraging React hooks, React Context API and Zustand for reactive connection handling, real-time account updates, and streamlined transaction signing with support for Metamask and other EVM-compatible wallets.
- Built highly performant, type-safe forms for creating tokens and liquidity pools using React Hook Form and Zod, ensuring real-time validation and minimal re-renders.
- Built high-performance data tables for liquidity pools and token data using TanStack Table, with server-side pagination, for smooth rendering of large datasets.

Mobile App Engineer, *RushAM* 01/2025 – 06/2025

Developed a cross-platform mobile application using React Native, TypeScript, and Expo to connect deliverymen with customers in need of local delivery services.
• Built the mobile app using React Native with Expo for rapid development and deployment on both iOS and Android.

• Used TypeScript to ensure type safety and maintainable code across the application.
• Implemented role based access control for the different kinds of users.
• Integrated location services for pickup/drop-off coordination and route visibility.
• Designed clean , reusable and responsive UI components optimized for mobile.
• Developed push notification workflows to alert riders of new delivery requests and updates.
• Employed modular architecture and reusable components for scalability and maintainability.

Backend Engineer, *Tradify* 05/2025 – 06/2025

Developed the backend for a wallet management service as part of a consultancy case study requested by a client, focusing on transactional integrity, modular architecture, and scalable design.

- Built the backend using FastAPI, structuring the application around domain-driven modules including User, Wallet, Balance, and Transaction services.
- Modeled the relational database using SQLModel and Pydantic to simplify schema management and ensure data integrity.
- Implemented secure and atomic transaction flows for deposits, withdrawals, and currency swaps, ensuring accurate balance updates and rollback safety.
- Integrated Redis for caching and OTP/session state management, enhancing performance and enabling efficient user verification and rate-limiting logic.
- Applied concurrency control techniques to prevent race conditions and maintain wallet consistency in high-traffic environments.
- Enabled automated and interactive API documentation using Swagger/OpenAPI, allowing for seamless testing and collaboration across development.
- Followed clean architectural principles and best practices in API design, with environment-based configuration, modular services, and a Dockerized setup for reproducibility and deployment.

Fullstack Engineer, *OnboardMe* 01/2024 – 12/2024

Built a learning platform to educate users about Web3 concepts through interactive lessons, using Django and Django REST Framework to deliver a robust, modular, and scalable API. With NextJS and Typescript on the frontend

- Developed a well-structured RESTful API with a clear separation of concerns, supporting features like user authentication, lesson content delivery, progress tracking, and quiz result management.
- Designed and implemented relational models with PostgreSQL to manage user profiles, lesson data, badges, and course progress.
- Implemented real-time updates using Redis in combination with Server-Sent Events (SSE) to invalidate cached content and push updates to connected users, ensuring data consistency and live synchronization across clients.
- Leveraged Django Signals to trigger automated backend workflows during key user actions such as registration, progress updates, and badge awards.
- Containerized the backend using Docker, enabling consistent development environments and streamlined deployment workflows across teams.
- Ensured secure and scalable architecture with JWT-based authentication and role-based access control for protected endpoints.
- Developed a responsive and modular frontend using **Next.js and TypeScript**, ensuring seamless UX across desktop and mobile.
- Integrated the frontend with the REST API using custom hooks and Axios, enabling smooth and secure data flow.

- Built reusable UI components with clear state management using **React Context API** and **Zustand**, improving maintainability and reducing complexity.
- Implemented protected routes, conditional rendering, and persistent login using JWT stored in secure HTTP-only cookies.
- Managed global authentication state using React Context API and Zustand
- Integrated React Quill as a rich text editor for lesson content creation, with DOMPurify-based sanitization and structured JSON storage to preserve formatting and prevent XSS vulnerabilities.

Frontend Engineer, *NestedHealth* 08/2024 – 01/2025

Developed landing pages and multi dashboard application using role based access control with React, Vite Typescript and Tailwind with Jest for testing .

• Developed responsive landing pages with optimized performance and SEO best practices.

- Built type-safe, user-friendly forms for multiple use cases accross the app using React Hook Form and Zod for schema-based validation.

• Built a complex multi-dashboard application supporting multiple user roles with Role-Based Access Control (RBAC).

• Implemented frontend logic using React and Vite for fast build times and smooth developer experience.

• Used TypeScript to enforce strict typing and reduce runtime errors across the codebase.

• Styled UI components with Tailwind CSS built untop of ShadcnUI ensuring a consistent, stable and scalable design
system.

• Designed and managed dynamic routing and navigation based on user roles and permissions.

• Wrote comprehensive unit and integration tests using Jest to maintain code quality.

• Collaborated with backend teams to consume APIs securely and handle asynchronous.
data fetching using React Query.

• Employed state management patterns to maintain user session and UI state effectively using React Context API and Zustand.

• Optimized application for accessibility and responsiveness across devices.

• Set up CI pipelines to automate testing and linting during development cycles

Backend Engineer, *NettPharmacy* 07/2024 – 01/2025

Worked as a Backend Engineer to design and develop a web server to be integrated with
a Shopify store with the aim of connecting 3rd Party carriers and gooogle map services
using ExpressJS and JavaScript

• Designed and implemented a modular Express.js backend in JavaScript to serve as a
middleware layer between a Shopify store and external services.

• Integrated Google Maps APIs for geolocation, address validation, and distance-based
delivery logic.

• Engineered asynchronous workflows for external API communication with robust error handling and retry logic.

• Structured the backend for scalability and future extensibility, following clean code
and separation of concerns principles.

• Collaborated cross-functionally with frontend and Shopify app developers to align API contracts and ensure seamless integration.

Frontend Engineer, *Ovation* 05/2024 – 09/2024

Implemented dashboards using Vite and TypeScript to deliver a performant, user-friendly interface that empowered users to monitor their Web3 assets and activity with
clarity and ease.
• Utilized ShadCN components and Tailwind CSS to develop a clean, accessible, and visually consistent interface aligned with brand guidelines.
• Worked closely under the guidance of a lead developer, actively engaging in pair programming sessions to improve code quality and share knowledge.
• Participated in regular code reviews and planning, contributing to agile development
processes.
• Maintained modular, reusable code patterns and enforced best practices for scalability
and maintainability.

Fullstack Engineer, *Nadcasino* 02/2024 – 05/2024

Built a virtual casino platform with Web3 integrations, focusing on creating a transaction relayer server for sponsored transactions using FastAPI and Web3 technologies.

- Developed a backend relayer service in FastAPI to securely handle and relay gasless (sponsored) transactions on an EVM-compatible blockchain, enabling seamless interaction with smart contracts without requiring users to hold native tokens.
- Designed and managed the application's data layer using Pydantic for data validation and schema enforcement, and leveraged SQLModel to define and manage relational models.
- Integrated blockchain functionality using Web3.py , allowing the backend to interact with smart contracts, verify signatures, broadcast transactions, and query on-chain data.
- Built secure and extensible API endpoints to power the casino's frontend, enabling game interactions, wallet connections, and user state tracking.

Frontend Engineer, *Express Elevators* 01/2024 – 07/2024

As the lead developer in charge of the web project, I architected and developed the company
'
s web site using modeern technologies to meet the clients goals
• Developed a high-performance, responsive web application using React, Vite, and Tailwind CSS, achieving load times under 1s.
• Developed animations using framer motion and optimized them to still have good loading times.
• Built reusable and scalable UI components using Tailwind utility classes and component-driven design principles.
• Implemented client-side routing with React Router and managed dynamic layouts for various user flows.
• Used Jest and React Testing Library to write and maintain unit and integration tests, ensuring reliability and reducing bugs.
• Configured Vite for fast builds and optimized bundling during development and production.
• Set up end-to-end deployment with CI/CD tools (github actions)

• Collaborated closely with designers using tools like Figma, translating high-fidelity mockups into pixel-perfect components.

Backend Engineer, *MAPSAT* 08/2023 – 03/2024

Developed a sentiment analysis tool to monitor maritime and petroleum news related to Nigeria, delivering market sentiment insights using a fully automated data pipeline.

- Built the backend using Django, structuring the application around a modular and scalable architecture with clearly defined components for scraping, processing, and serving sentiment data.
- Implemented web scraping workflows using Scrapy, enabling automated extraction of news articles and industry updates from relevant sources.
- Used the default Django ORM to manage and persist structured data, including scraped content, sentiment scores, and metadata for tracking and querying historical trends.
- Applied VADER sentiment analysis to classify news content in real-time, providing polarity scores to help evaluate market sentiment in the maritime and petroleum sectors.
- Automated scraping tasks using Celery with scheduled job execution via cron, ensuring timely data collection and processing without manual intervention.
- Designed and exposed RESTful API endpoints to serve sentiment results and article metadata to clients or downstream services.

Frontend Engineer, *LexxyFX* 01/2023 – 05/2023

Worked as part of a contracted engineering team responsible for building a modern dashboard for LexxyFX's bureau de change operations. Under the guidance of senior developers, I contributed to implementing core features and UI components using a modern frontend stack.

- Contributed to the development of a responsive and fast-loading dashboard using React, TypeScript, Tailwind CSS, and Vite.
- Assisted in building reusable UI components using Tailwind utility classes, following design guidelines and best practices.
- Supported the setup and maintenance of client-side routing using React Router, enabling seamless navigation between views.
- Participated in code reviews, daily standups, and collaborative development with other engineers and designers.
- Translated UI designs from Figma into responsive, pixel-perfect components.

Software Engineering Trainee, *ALX Africa* 08/2022 – 11/2023

Selected to participate in ALX's intensive Software Engineering program focused on foundational computer science concepts, full-stack development, and industry-relevant tools and workflows.

- Gained practical experience in C programming, Python scripting, JavaScript scripting, and basic web development using HTML and CSS.
- Developed and debugged Bash scripts, worked with basic Linux commands, and built command-line tools in a Unix-based environment.
- Built simple database-backed applications using SQLAlchemy and raw SQL, and explored basic DevOps concepts including Nginx configuration and server deployment.
- Practiced version control and collaborative development using Git and GitHub, participating in peer code reviews and pair programming.

- Strengthened skills in problem-solving, algorithmic thinking, and self-directed learning through regular challenges and assessments.

IT Suppport Intern, *NIGERIAN PETROLEUM DEVELOPMENT COMPANY* 01/2022 – 08/2022

As an intern at NPDC, I supported the IT team while also taking the opportunity to learn the basics of web development and productivity tools used in software projects.

- Helped staff with basic technical issues like setting up computers, fixing simple hardware problems, installing software, and making sure internet connections and printers worked properly.
- Helped with setting up desktops, laptops, and other office equipment, and learned how to check for and fix hardware problems.
- Began learning HTML, CSS, and JavaScript basics, and observed how real web projects are structured and built.
- Used productivity tools like to track basic tasks and see how professional teams manage their work.

Software Engineering Intern, 05/2019 – 12/2019

Department of Computer Engineering, University of Benin

As an intern in the Department of Computer Engineering, I worked on a Result and Transcript Management System under the guidance of a senior engineer. I contributed to frontend development and participated in the early stages of database design.

- Assisted in building Microsoft Forms applications using Visual Studio for managing student results and transcript requests.
- Participated in code reviews and daily standups, gaining practical exposure to structured software development processes.
- Contributed to the design of the SQL database schema, helping define data structures for storing student academic records.
- Strengthened my understanding of frontend development and relational databases in a real-world academic project environment.

EDUCATION

Bachelor of Engineering in Computer Engineering (B.Eng.), *University of Benin* 2017 – 2024

SKILLS

Python
Django, FastAPI, TensorFlow/Keras, Scrapy

JavaScript / TypeScript
React, NodeJS, NestJS, ExpressJS

Productivity
Jira, Notion, Trello, Slack

Language
Native English speaker

Solidity
EVM Smart Contract Development

Version Control
Git

Automation
Celery

Language

English
Native

OTHER PROJECTS

Land Use and Land Cover Classification Model, *Developed a deep learning model for classifying Multi-Spectral Surface Reflectance Data from the LandSAT satellite for the purpose of developing Land Cover Maps for Fido State, Nigeria.*
Role: Al / Data Science
Stack: Python, Tensorflow, Javascript, Earth Engine, Google Colab

GDeliver, *Buill a microservice that communicated with Chowdeck and Google Maps to provide real-time delivery pricing information and delivery management functionality for a Shopity store*

Certificates

- AI Programming With Python Nanodegree