

Yusuf Mustahan

Senior Software Engineer

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PROFESSIONAL SUMMARY

I am an adept senior software developer with six(6) years of experience, focusing on full stack development and decentralized (blockchain) programming. I have crafted applications for diverse industries like **Fintech, E-commerce, Healthcare, and Blockchain**. I thrive on data-driven solutions, translating business goals into innovative digital products. I stay current with tech trends, consistently passionate about crafting innovative digital solutions exceeding client expectations with high-quality software solutions. Think of it, I can build it, and let's turn ideas into reality!

TECH STACK

Front End	HTML5, CSS3, Bootstrap, Tailwind CSS, JavaScript, TypeScript, React.js, Svelte, Redux, Next.js, React Native, Vue.js/Vuex/Nuxt.js, Material UI, Axios, Flutter, Apollo Client
Back End	Node.js, Express, Nest.js, Firebase, Ruby, Microservices, REST, NVP and GraphQL APIs, Serverless, Amazon Web Services (AWS), PHP/Laravel, Firebase, Python Flask, Django, DNS routing and Network support.
Security Management	CORS, OpenSSL, JWT and JWE, OAAUTH2
DevOps	Kubernetes, Microservices, API gateway(Reverse proxy), Docker, git & github, CI/CD, Make, CMake, npm, Bash scripting, Jasmine, Karma, Protractor
Data Stores	MongoDB, Redis, PostgreSQL, MySQL, Redis, Sanity, Supabase, Firestore.
Blockchain	Web3 JS, Solidity, Third Web, Ethers JS, Truffle, Hardhat.
Payments Integrations	Stripe, Thales, Apple pay, Google pay, paypal, Paystack, Foo, Entrust.
Soft Skills	Excellent Communication, Empathy, Great Working Speed, MultiTasking, Teamwork, Troubleshooting

WORK EXPERIENCE

CDIAL.AI (Indigenius AI), Lagos, Nigeria — Frontend Engineer & SDK Developer

August 2024 - Present

>> CDIAL.AI is a pioneering AI technology company focused on digitizing indigenous African languages and enhancing customer engagement through voice AI solutions. Building a no-code platform that enables businesses to deploy multilingual AI agents across multiple communication channels. empowering businesses to make outbound voice calls to customers, receive incoming calls from users on mobile phones and via webcalls,

- **Frontend Development:** Led the development of user interfaces using React and TypeScript, ensuring seamless integration of AI voice agents into agent pro web applications.
- **Real-Time Data Handling:** Implemented SWR (stale-while-revalidate) for efficient data fetching, enhancing the application's responsiveness and providing users with real-time updates.
- **State Management:** Utilized lightweight and efficient state management techniques to optimize component rendering and maintain application performance.
- **Integration of Stripe Payment Gateway:** To streamline payment processes, I seamlessly integrated the Stripe payment gateway, ensuring a smooth and secure payment experience for users.
- **SDK Development:** Built and maintained the Agent Pro SDK (available via npm and CDN) for seamless integration of indigenius AI agents into business platforms via frameworks or HTML.
- **CRM Workflow Development:** Designed and built a fully functional **CRM workflow system** to support end-to-end workflow automation for cdial indigenius AI agents, enabling users to seamlessly manage leads, tasks, and customer interactions from a single platform.
- **Documentation:** Authored comprehensive and user-friendly documentation for the Agent Pro SDK, facilitating easier adoption and integration by client developers.
- **Clean Code Practices:** Employed both class-based and functional components in React, adhering to best practices to ensure code maintainability and scalability.
- **Innovation:** Contributed to the development of groundbreaking applications aimed at revolutionizing customer interactions, particularly in regions with limited internet connectivity.

Led the development of a deterministic test suite for multi-step command-line development exercises, resulting in a 20% reduction in debugging time.

- Developed and documented reproducible setups for data processing tasks using Docker, reducing errors by 15%.
- Containerized tasks with Docker to ensure consistency and reproducibility across development environments.
- Wrote clear, concise documentation that detailed objectives and requirements, improving team collaboration and efficiency.
- Successfully troubleshooted and resolved issues in CI/CD pipelines, leading to a 10% increase in deployment success rate

Technologies: React.js, TypeScript, SWR, Node.js, Express.js, MongoDB, npm, simpler-state, Git.

Kary, Nigeria — Angular Consultant (Contract)

6 Months Contract

>> The contract involved modernizing Kary's eCommerce web application, originally built on an outdated Angular version. The objective was to upgrade to Angular v19, improve performance, and ensure maintainability for a scalable shopping platform.

- I played a key role in assessing the legacy Angular codebase, identifying deprecated libraries, inefficient checkout flows, and broken dependencies that limited performance.

- I executed a structured **migration plan**, upgrading Angular CLI, TypeScript, and RxJS, and replacing outdated libraries with modern, stable equivalents.
- My primary focus was on **refactoring the product catalog, cart, and checkout modules**, aligning them with Angular best practices and modular structures to improve maintainability.
- I improved **application performance** by implementing lazy loading for product routes, optimizing API calls, and enabling AOT compilation, which led to a 40% reduction in initial load time.
- I enhanced **state management** with RxJS and Angular services, streamlining cart-to-checkout data flow and reducing user-reported errors by 30%.
- I integrated a modern, secure **payment gateway service**, replacing outdated implementations and ensuring compliance with security standards.
- Rigorous testing procedures with **Jasmine and Protractor** were applied, improving software reliability and decreasing checkout-related bugs.
- I delivered detailed documentation and conducted **knowledge transfer workshops** with Kary's internal team, ensuring smooth adoption of Angular v19 practices for future development.

Technologies: Angular v19, TypeScript, RxJS, Jasmine, Protractor, SCSS, REST APIs

Walkmetru, United Kingdom (UK) — Fullstack Web Application Developer

September 2023 - July 2024

>> This platform elevates learning by enabling users to create classes, allowing students to enroll and book sessions for live meetings on the web application.

- In this project, I took on various roles and responsibilities to ensure an optimized and seamless user experience:
- Frontend Development with Next.js: Leveraging Next.js, a React.js framework, I crafted the frontend interface, prioritizing optimization and enhancing user experience.
- I Integrated DALLE and GPT which were on python to help users have a better UX creating classes on the application.
- **Efficient State Management:** I implemented simpler state management techniques to ensure lightweight performance and optimize component rendering, thus enhancing overall efficiency.
- **Integration of Stripe Payment Gateway:** To streamline payment processes, I seamlessly integrated the Stripe payment gateway, ensuring a smooth and secure payment experience for users.
- **Integration of Apple pay and Google pay:** To ensure further better payment processes, I seamlessly integrated the Apple and Google pay SDK with our stripe payment gateway, ensuring a more smooth and secure payment experience for users.
- **Backend Development with Node.js / Express.js / MongoDB:** I utilized Node.js / Express.js / Typescript for building the REST API, managing robust business logic and storing data on MongoDB ensuring efficient data handling and system functionality.
- **Nest JS and GraphQL Implementation:** Working with Typescript on Next.js a React JS framework and GraphQL, I adhered to SOLID coding principles, ensuring code maintainability and scalability.

- **Time Management Across Time-Zones:** I effectively managed time across different time zones to ensure the seamless continuity of user sessions, enhancing overall usability.
- **Security & Authentication:** I managed user authentication using the JWT access token standard and Google Sign-In. By implementing these authentication methods, I ensured a secure and streamlined user login process, enhancing the overall security and user experience of the application.
- **Utilization of Firebase for Real-time Chat and Notifications:** Leveraging Firebase, I implemented real-time chat and notification systems within the application, enhancing user engagement and interaction.
- Utilized Docker for containerizing the application, improving portability and scalability.
- Integrated Docker and Kubernetes for managing application deployment and scaling, improving system reliability.
- Wrote unit and integration tests to ensure code quality and minimize bugs.
- Implemented CI/CD pipeline for continuous integration, testing, and deployment, resulting in faster release cycles and enhanced development workflow.

Technologies: React JS, mongodb, node.js, Express.js, Stripe with (Apple and Google pay), paystack.

Theraswift, Nigeria — Fullstack Mobile Application Developer

December 2022 - August 2023

>> The mobile app made it easy for users to get healthcare help. They could connect with providers, set up appointments, and find medical info. It had features for talking in real-time and keeping things secure. The app got better with updates, making it easier and faster to use.

- Architectural Design of **Healthcare System Application:** I spearheaded the architectural design of the healthcare system application, ensuring scalability and peak performance.
- **Initial Building of Landing Page with HTML/CSS:** I handled the initial building of the landing page with HTML/CSS before we revamped to React JS.
- **Frontend Development with React Native and Typescript:** I built the frontend using React Native and Typescript, resulting in a notable improvement in user interface responsiveness.
- **Implementation of Context API for State Management:** Implemented context API for state management and Javascript to manage utilities, enabling seamless user experiences.
- **Backend Development with Node.js / Express.js / MongoDB:** I Implemented backend REST API with Node.js / Express.js with MICROSERVICE achieving a significant increase in server performance and managing data storage with MongoDB.
- **Leveraging Real-time Socket Technology:** Leveraged real-time socket technology to drastically reduce message latency and deliver in real-time.

Technologies: React native, mongodb, node.js, paystack.

Crownlinks Learning Platform, United Kingdom — Fullstack Developer (Contract)

12 Months Contract

>> The project involved developing and maintaining a learning management system to streamline learning administration, student performance tracking, and real-time communication between teachers and learners. It was migrated from React.js to Angular v16 for better structure, easier maintenance, and improved scalability.

- Led the frontend development with Angular v16, building components for student dashboards, attendance, and performance tracking.
- Worked with backend engineers to connect Node.js/Express APIs with Firebase Firestore for real-time data across classes, schedules, and student records.
- Added role-based authentication with Firebase Authentication to secure access for admins, teachers, and students.
- Built real-time notifications for grading, announcements, and schedules using Firebase Cloud Messaging and Firestore listeners.
- Reviewed code and shared knowledge with the team to keep clean and consistent coding practices.
- Improved performance with lazy loading, route guards, and Firestore query optimization, cutting dashboard load time by 35%.
- Used Tailwind CSS to build responsive and consistent UI components, speeding up development.
- Wrote unit and integration tests with Jasmine and Karma, reducing production bugs.
- Took part in Agile sprints to deliver features on time and include feedback.

Technologies: Angular v16, Node.js/Express, Firebase Firestore, Firebase Authentication, Firebase Cloud Messaging, Tailwind CSS, TypeScript, HTML5, SCSS

Circlein (Pluno), London — Backend Developer

November 2021 - June 2022

>> Pluno is a web application that offers a 3D workspace to design, prototype and collaborate with other people across the globe.

- During my tenure with the Circlein team, I was an integral part of a collaborative effort, working closely with a three.js developer who handled the 3D space aspect of the project.
- I took charge of developing the landing page, dashboard, and collaborated closely with the UI/UX designer to ensure a seamless user experience, while the three.js developer focused on the 3D environment.
- I worked with a colleague to set up Python django REST API endpoints.
- Frontend Development with Next.js: I employed Next.js for frontend development, optimizing site performance and resource rendering.
- Seamless Connection Between Backend and Frontend: Key aspects of my contribution include establishing a seamless connection between backend and frontend technologies.
- Integration of Web3-JS for Blockchain and Frontend: I leveraged Web3-JS to facilitate Blockchain and frontend integration.

- Javascript Utility Functionality: I built javascript utility functionality to facilitate the upload and rendering of 3D and 2D assets.
- Integration of User Wallets with Web3 Technology: I integrated user wallets using web3 technology to enable the rendering of NFT assets.

Technologies: web3.js, firebase, firestore, next.js, wallet connect.

Aibanc, Nigeria — Mobile Application Developer

November 2020 - October 2021

>> The Fintech loan app offers a user-friendly interface for easy borrowing. Users access loans based on credit limits, with features like credit limit generation and BVN verification ensuring secure transactions.

- I contributed to the entirety of the project lifecycle, from design to development and deployment, as the mobile application developer, alongside our team consisting of two engineers.
- Within our development team, my responsibilities included collaborating on the architectural design of the loan fintech application, ensuring its scalability and performance.
- I worked closely with the backend engineer who leverages MongoDB and Nest.js for the backend management.
- Frontend Development with React Native: Implemented frontend features using React Native, Javascript, Typescript, Apollo Client, Context API for state management, and Javascript to manage utilities, enabling seamless user experiences.
- Integration of Okra Third-party SDK: Integrated the Okra third-party SDK to facilitate credit limit generation and BVN verification, enhancing user authentication and security.
- Deployment to App Store and Google Play Store: I assisted in the deployment process to both the App Store and Google Play Store, ensuring a smooth and successful release.
- Ongoing Maintenance and Optimization: Engaged in ongoing maintenance and optimization efforts post-deployment, addressing any reported bugs and implementing feature enhancements.

Technologies: React native, apollo client, paystack.

Tenplus Digital Labs, Nigeria — Web Application Developer

January 2020 - September 2020

>> The application is based on maintaining all of the sub-franchise on the application which will help manage and streamline data across different servers

- I played a key role in collaborating with a talented team to engineer the organization's software.
- I worked with a colleague with python on AI development, helping in debugging and contributing to the code.
- Frontend Development for Administrator's Dashboard: My primary focus was on frontend development for the administrator's dashboard, where I utilized React JS, Tailwind, HTML/CSS, Bootstrap to deliver a streamlined and engaging user experience.

- Crafting API Endpoints: In addition to frontend development, I expertly crafted REST API endpoints using both Node.js/Express and PHP/LARAVEL. These REST API endpoints were instrumental in facilitating efficient data management, resulting in a notable reduction in data retrieval time.
- Ensuring Data Integrity and Security: Ensuring data integrity was paramount, and robust security measures were implemented to safeguard sensitive information. This proactive approach led to a decrease in security incidents, reinforcing user trust and confidence in the platform.
- Rigorous Testing Procedures: Throughout the development process, rigorous testing procedures were undertaken to identify and resolve issues and bugs promptly. This meticulous approach improved the overall quality of the software and contributed to a seamless user experience.
- Maintenance and Performance Optimization: I maintained efforts were a cornerstone of my role, ensuring sustained performance levels and minimizing downtime. Software maintenance led to a significant reduction in downtime, enhancing efficiency and productivity for users.

Technologies: React.js, PHP/Laravel

Progress Farms, Nigeria — Web Developer

July 2019 - November 2019

>> The web app promotes the organization's farm animals and produce, highlighting their quality and commitment to sustainable agriculture. It's a key marketing tool, drawing in potential customers and strengthening the bond between consumers and the farm's products.

- During my tenure as a Fullstack Developer at Progress Farms, I played a pivotal role in enhancing their online presence and improving website functionality.
- Frontend Development with HTML/CSS: On the frontend, I utilized HTML/CSS to design an engaging user interface, employing responsive design principles to ensure optimal user experience across devices. This led to a notable increase in user engagement, indicating the effectiveness of the design.
- Backend Development with PHP Laravel: For the backend, I employed PHP Laravel to develop efficient and secure API endpoints, enhancing website functionality and performance.
- Integration of AJAX: The integration of AJAX further facilitated seamless data retrieval and manipulation, resulting in a significant reduction in page load times.
- Construction of Visually Appealing Website: One of the key achievements during my time at Progress Farms was the construction of a visually appealing website that effectively showcased the organization's products and services.
- Rigorous Testing Procedures: Rigorous testing procedures were implemented to guarantee a smooth and error-free user experience, resulting in a remarkable reduction in user-reported issues and errors.
- Increase in Online Sales: As a result of these efforts, Progress Farms experienced a notable increase in online sales, with a boost attributed to the effective showcasing of products and services on the website.

Technologies: HTML5, CSS3, PHP/Laravel

Alamnuosimcs, Nigeria — Web Developer

November 2018 - May 2019

>> The contemporary fintech web application aimed to provide users with a seamless platform for thrift management. Users could easily participate in group savings schemes, contribute money regularly, and take turns receiving lump sum payouts.

- During my tenure as a Full-Stack Developer building the Alamnuosimcs web application, I played a crucial role in the development of a contemporary fintech website tailored to financial services.
- Frontend Design with HTML/CSS: Combined HTML/CSS for frontend design to craft a visually appealing and user-friendly platform.
- Backend Development with PHP: Utilized PHP on the backend, resulting in a notable increase in page loading speed, enhancing user satisfaction and retention.
- Utilization of AJAX, HTML/CSS, and JavaScript: Implemented dynamic interactions to improve user engagement and reduce page load times, contributing to a smoother and more responsive user experience.
- Integration of Secure Payment Gateway: Implemented seamless integration of a secure payment gateway, ensuring smooth and safeguarded user transactions, reducing transaction issues, and enhancing overall user experience.
- Meticulous Maintenance: My meticulous approach to maintenance played a crucial role in fortifying the software's robustness and ensuring a seamless encounter for users engaging with financial services.
- Elevating Digital Presence: Through my contributions, I decisively elevated the organization's digital presence, providing users with a modern and efficient platform to access financial services.

Technologies: HTML5, CSS3, PHP/Laravel

Omega Institute, Nigeria— Software Development Instructor

January, 2017 - August 2018

- Developed and facilitated engaging, cutting-edge curricula for software development courses, resulting in students building a full-stack web application with a 75% project completion rate.
- Successfully taught and mentored over fifty students, equipping students with the knowledge, skills, and best practices for the software development industry, resulting in a 90% student satisfaction rate.
- Created an engaging learning environment with real-world examples, leading to a 25% increase in student engagement and a 15% improvement in problem-solving skills.
- My contributions at Omega Institute prepared the next generation of software developers, fostering a passion for continuous learning and ensuring their readiness to meet industry demands.

EDUCATION

Bsc. Mathematics.

University of Ilorin • Ilorin, Nigeria. • 2024
