Muhammed Sodiq
Software Engineer (Frontend-Focused)

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I'm a Software Engineer with a strong computer science foundation and a focus on building efficient, user-centered web systems with scalable architecture. Over the past four years, I've worked across multiple projects; from small freelance dashboards to production-grade platforms, applying principles of algorithms, data structures, and system design to frontend development. I care deeply about performance, accessibility, maintainable architecture, and documenting technical decisions. Whether it's designing service layer separation, optimizing React components, or establishing testing strategies, my goal is to create interfaces that are as technically solid as they are intuitive.

PROGRAMMING & DEVELOPMENT SKILLS

Languages & Frameworks: TypeScript, JavaScript (ES6+), React.js, Next.js, Vue.js, Nuxt.js, Astro, HTML5, CSS3 (SCSS), Python, PHP, Laravel, Nodejs, Expressjs
State Management & Data Fetching: SWR, Redux Toolkit, Context API, Server State Management
Styling & UI/UX: Tailwind CSS, Material UI, Responsive Design, Accessibility, Cross-Browser Compatibility
Software Engineering: System Design, Architecture Documentation, Algorithms, Data Structures, API Design, Component Architecture, Performance Optimization, Design Pattern, Object Oriented Programming (OOP), Architecture Decision Records (ADR)
DevOps & Tooling: Git, GitHub, Bitbucket, Docker, Webpack, Vite, GitHub Actions, CI/CD Pipelines
Testing & Methods: Integration Testing, Unit Testing, Vitest, React Testing Library, Test-Driven Development (TDD), Agile/Scrum
Collaboration: REST APIs, Team Leadership, API Integration

PROFESSIONAL EXPERIENCE

FRONTEND DEVELOPER (CLIENT PROJECT)   2025
Simestra Marketing Platform - Remote
Architected and developed a production marketing automation platform managing campaigns, AI-driven agents, and customer interactions for enterprise clients.
- Designed layered architecture with strict service-layer separation, reducing API coupling by 60%.
- Led migration from Redux to SWR for state management, cutting boilerplate code by 85%.
- Implemented permission-based RBAC system across 15+ resource types with granular access control.
- Established integration testing strategy using Vitest and React Testing Library, achieving 70% coverage.
- Documented architectural decisions through 5 ADRs, demonstrating system design thinking.
  Tech: React.js, TypeScript, SWR, Material UI, Keycloak OAuth, REST APIs, Vitest, React Testing Library

FRONTEND DEVELOPER (CONTRACT BASED)   2025
Excellent Link Academy - Lagos, Nigeria
Built a responsive e-learning platform featuring dashboards, progress tracking, and course modules.
- Handled the frontend build for an e-learning platform using React and Inertia.js to keep the SEO benefits of SSR while using a Laravel backend.

- Focused on performance for mobile users on slower Nigerian networks; reduced page weight enough to hit a 95 Lighthouse score.
- Simplified the dashboard's data flow which cut down unnecessary API requests by 40%, making the app feel much snappier on 3G connections.
- Moved the UI to a mobile-first Tailwind layout, which helped onboard more students who primarily access the site via phones.
Tech: React, Inertia.js, Laravel, Tailwind CSS.

FRONTEND DEVELOPER (REMOTE CONTRACT PROJECT)   **2023 - 2024**
QuantumSphere Technologies - Lagos, Nigeria
Joined the engineering team behind *Monietracka*, a fintech platform, to lead development of the admin dashboard.
- Integrated multiple REST APIs and worked closely with backend teams for smooth API communication.
- Set up CI/CD pipelines on Bitbucket to automate deployment workflows.
- Worked closely with backend engineers to ensure consistent API communication and deployment reliability.
Tech: React.js, Next.js, TypeScript, Astro, TailwindCSS, Vite, Bitbucket

FRONTEND DEVELOPER (FREELANCE)   **2023**
DFS Services - Lagos, Nigeria
Developed a logistics web platform with real-time data visualizations
- Designed data-driven UI components using Chart.js for fleet analytics.
- Ensured secure API interactions and optimized rendering performance.
Tech: React.js, TypeScript, TailwindCSS

FRONTEND DEVELOPER (FREELANCE)   **2022 - 2023**
Safe Haven Defence
Created an internal monitoring tool with real-time analytics for field operations.
- Implemented responsive, mobile-first layouts for use in diverse field conditions.
- Collaborated with backend engineers to streamline secure API integration.
Tech: React.js, Next.js, TailwindCSS

SOFTWARE DEVELOPER (FREELANCE)   **2022 - 2023**
4Runner Global Ltd - Lagos, Nigeria
Delivered a corporate landing page platform with reusable UI components.
- Built reusable UI components to enhance speed and maintainability.
- Managed API integrations with structured error handling and graceful loading states.
Tech: React.js, TailwindCSS

PROJECTS

MARKETING PLATFORM ARCHITECTURE DOCUMENTATION   **December 2025**
PORTFOLIO PROJECT | PUBLISHED
Comprehensive architectural documentation for a production React marketing automation platform, demonstrating senior-level system design thinking.
● Documented 5 key architectural decisions including service layer separation, state management strategy, OAuth security model, and RBAC permission design.
● Created a 12,000-word case study analyzing tradeoffs, rejected alternatives, and evolution paths.
● Published Architecture Decision Records (ADRs) following industry best practices.

● Demonstrates ability to communicate complex technical decisions to engineering teams.
Tech: Technical Writing, System Architecture, ADR, React Architecture Patterns
Link: github.com/msodiq19/marketing-platform-architecture

RES3ARCHSYNC PLATFORM — COLLABORATIVE RESEARCH TOOL   March - April 2025
(HACKATHON PROJECT) | MVP COMPLETED
Built a real-time academic co-authoring and resource management platform to simplify research collaboration.
- Architected real-time synchronization using Yjs and WebSocket protocols.
- Integrated AI co-pilot features, version-controlled editing, and JWT-secured sessions.
- Designed collaborative UI components for live editing, version history, and permissions.
- Enabled cloud-based screenshot thumbnails using Cloudinary.
  Tech: React, TypeScript, Yjs, Socket.IO, Cloudinary, JWT, Quill, REST APIs
  Features: Real-Time Sync | AI Copilot | Encrypted Sessions | Export | Collaborator Analytics

COGNITICARE AI — HEALTHCARE HACKATHON PROJECT
Designed and implemented a healthcare UI for Alzheimer's detection and caregiver tracking.
- Focused on responsive design and server-side rendering for faster performance.
- Collaborated on integrating predictive AI insights into the frontend dashboard.
  Tech: React.js, Next.js, TypeScript, TailwindCSS

EDUCATION

UNIVERSITY OF LAGOS, NIGERIA   **2018 - 2025**
Bachelor of Science in Computer Sciences

LANGUAGES

English