Chibuike Maduabuchi - Software Design Engineer

WORK EXPERIENCE

INDEPENDENT PRACTICE
Software Design Engineer

Remote - Enugu, Nigeria
Decemeber 2024 - Present

- Designed, built and shipped production web applications end to end using Next.js with React Server Components (RSC) and Typescript, supporting complex user workflows for fintech, ecommerce and healthcare products.
- Built durable front end infrastructure using SSR, SSG, streaming, and smart caching, improving load times by 20 percent plus and maintaining sub 1.2s initial load on low bandwidth devices.
- Led design and implementation of accessible, responsive interfaces using Figma, Tailwind CSS, and Framer Motion, increasing user engagement by 25 percent through clear hierarchy and smooth micro interactions and animations.
- Implemented complex interactive systems including dashboards, filters, modals, and real-time validation using React Hooks and Zustand, reducing UI latency by 30 percent.
- Integrated and managed backend data efficiently with TanStack Query, achieving faster data fetching and zero loading flickers through smart caching and background synchronization.
- Implemented secure authentication with Better Auth and managed data persistence using Neon, Supabase, and Drizzle ORM, enabling reliable sessions, safe schema migrations, and efficient data access.

KULIPAL TECHNOLOGIES LIMITED
Product Designer

Remote - Lagos, Nigeria
January 2024 - May 2025

- Conducted in-depth user research through interviews, surveys, and usability testing sessions, uncovering key user pain points and behavior patterns that directly informed design decisions.
- Created interactive prototypes in Figma, rapidly iterating on user flows and interface elements based on feedback from both users and stakeholders.
- Led the end-to-end design of Kulipal's Branch Management feature within our mobile app from wireframes to high-fidelity mockups focusing on clarity, accessibility, and minimizing cognitive load.
- Worked hand-in-hand with frontend developers to ensure high-fidelity implementation, maintaining visual consistency and responsive behavior across devices.
- Designed and tested mobile-responsive layouts for core web app features, optimizing for performance and usability across different screen sizes and devices.
- Redesigned key web pages to align with updated user needs and brand direction resulting in improved clarity, engagement, and conversion metrics.
- Designed email notifications with clear hierarchy, responsive formatting, and strong call-to-action elements to increase user interaction and retention.

SELECTED PROJECTS   [(Demo Videos)](#)

MEDIBRIDGE - AI HEALTHCARE DATA PLATFORM
- Designed and engineered an AI-driven healthcare data system using Next.js and the Vercel AI SDK to convert unstructured medical records from PDFs and scanned documents into structured, clinician-ready patient profiles.
- Built document ingestion and parsing pipelines that leverage AI-assisted extraction to identify key clinical data and expose it through searchable, usable interfaces optimized for clinical workflows.

AI POWERED FORM BUILDER
- Built a natural language driven form builder that converts prompts into structured UI schemas and renders production-ready, accessible forms at runtime.
- Implemented using Next.js, React, and Vercel AI SDK, enabling rapid form creation without manual configuration.

AI-TRANSFORM - BROWSER EXTENSION
- Built a browser extension that extracts live webpage content and transforms it into structured, schema-validated summaries using AI.
  Implemented an end-to-end pipeline with an Express API, Zod schemas, and Vercel AI SDK to generate executive, detailed, or technical summaries, then rendered them in a clean React UI with local caching and offline recall.

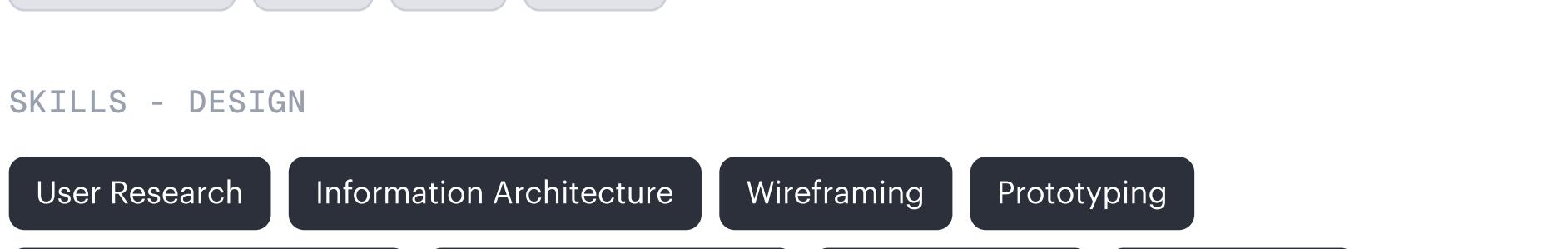## EDUCATION

BACHELOR OF ENGINEERING - CIVIL ENGINEERING
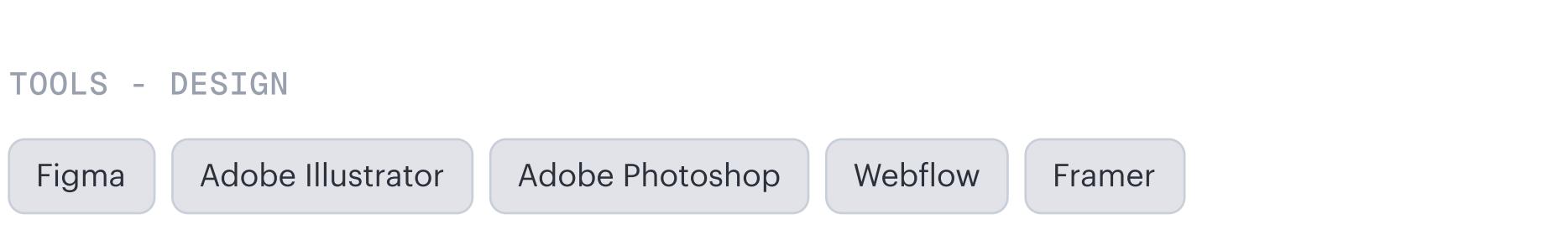University of Nigeria, Nsukka

UI/UX DESIGN COURSE
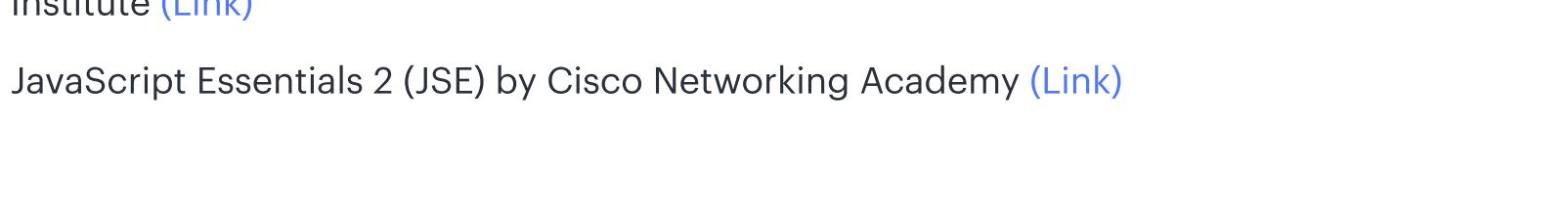Checklearn Batch (Experienced)

SKILLS - ENGINEERING

`User Interface Engineering` `Component-Based Architecture` `Responsive Design`
`State Management` `Performance Optimization` `Website & Web App Development`
`Software Testing & Debugging` `Accessibility` `Version Control`

CORE TECHNOLOGIES & TOOLS - ENGINEERING

`HTML` `CSS(SCSS)` `Tailwind CSS` `CSS Modules` `CSS-in-JS` `JavaScript` `TypeScript`
`React` `Next.js` `Framer Motion` `Context API` `TanStack Query` `SWR` `Zustand`
`Redux` `Node.js` `Express` `Git`

FAMILIAR WITH

`Better Auth` `Hono` `Sqlite` `Postgres` `Supabase` `Neon` `Firebase` `Web Sockets`
`Unit Testing` `PWA` `SEO` `CI/CD`

SKILLS - DESIGN

`User Research` `Information Architecture` `Wireframing` `Prototyping`
`User Experience Design` `User Interface Design` `Product Design` `Visual Design`
`Interaction Design`

TOOLS - DESIGN

`Figma` `Adobe Illustrator` `Adobe Photoshop` `Webflow` `Framer`

CERTIFICATIONS

JavaScript Essentials 1 (JSE) by Cisco Networking Academy in collaboration with OpenEDG JavaScript Institute (Link)

JavaScript Essentials 2 (JSE) by Cisco Networking Academy (Link)