

# IZUCHUKWU UCHENDU

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## PROFESSIONAL SUMMARY

A full-stack software engineer with a proven track record of developing web-based applications, and leading strategic initiatives for app development.

## CORE COMPETENCIES

**Front-end web development:** HTML5, CSS, JavaScript & Typescript, ReactJS, NextJS.

**Back-end development:** NodeJS.

**UI Libraries:** Tailwind, Bootstrap, Material UI, SyncFusion, SCSS, Ant Design, Chakra UI, ShadCn, Styled Components.

**Cloud Platforms:** Google Colab.

**Others:** Redux and Redux Toolkit, Firebase, Git and Github, Supabase, Cypress, Vercel CI/CD, MongoDB, Express, MySQL, TypeORM, Ethers.js, WebRTC, Docker

**Soft Skills:** Transparency/ Open Communication, Caring Mentality, Good Decision Making, Collaborative, Action Driven, Leadership

**Hobbies and interests:** Bodybuilding, Anime, classical music.

## WORK EXPERIENCE

### HarmonyKloud (Startup)

Feb 2025 – Present

*HarmonyKloud is a practice management and clinical platform designed for applied behavior analysis (ABA) and related therapy providers.*

#### Fullstack Developer

##### Project HarmonyKloud

- Updated the company's RBAC system to support custom roles and multi-role assignments, increasing flexibility and aligning user access with complex organizational workflows.
- Built a Custom Permission Template system, enabling reusable access patterns and reducing onboarding complexity for new teams.
- Built a high-impact admin panel with tools for tracking tickets and demo requests, enhancing visibility for support and sales operations.
- Designed and implemented a robust document management system enabling providers to securely upload, store, and retrieve documents across multiple file formats.
- Integrated backend logic for file validation, error handling, and optimized storage, ensuring scalability and compliance with industry standards.
- Spearheaded the development of a data importation system to support seamless onboarding from external platforms, enhancing user migration efficiency.
- Built an insurance eligibility verification module to solve time-consuming manual checks, enabling real-time coverage validation and streamlining provider workflows.
- Refactored legacy code to improve application performance and maintainability.
- Provided ongoing bug fixes and production support to ensure stability across deployments and cross-functional use cases.

##### Project HarmonyGrad

- Built an interactive learning interface that allowed users to seamlessly take courses, complete assessments, and track personal progress over time.
- Developed an admin dashboard enabling course uploads, performance analytics, and real-time tracking of learner metrics, improving visibility for instructors and administrators.

**Technology Stack Employed:** React, Shadcn, S3, Chakra UI, and Node.

### Dantown Assets Limited

Jun 2024 – Present

*Dantown is a fin-tech company that solves payment problems using cryptocurrencies.*

#### Frontend Developer

- Built a modular component library to solve inconsistencies across projects and enable rapid UI development, resulting in faster onboarding and reduced design-dev alignment time.
- Mentored junior developers, providing hands-on guidance with tasks, debugging, and best practices to accelerate their growth and confidence.
- Performed code reviews to maintain code quality, enforce standards, and share knowledge across the team.
- Implemented and integrated RESTful APIs to facilitate critical features, enabling users to access and view detailed account analytics through secure and efficient data retrieval mechanisms.
- Introduced a secure refund feature to eliminate manual bottlenecks in transaction reversals, empowering the finance team with data-validated refund processing and improving efficiency by 23%.
- Developed a comprehensive dashboard that streamlined transaction management for the finance team. This tool enabled real-time access to transaction data, supported efficient approval workflows for refunds and manual credits, and facilitated deeper analysis through CSV and PDF export capabilities, reducing manual processing time and enhancing decision-making efficiency.
- Led the complete redesign of the company website, implementing a modern, user-centric interface to improve usability and visual

appeal.

- Refactored legacy code to address performance bottlenecks and long load times, resulting in a 36% speed boost and improved SEO metrics through better code structure and reduced payloads.
- Collaborated closely with product managers and stakeholders to align technical implementations with business objectives, influencing company-wide development strategy.

**Technology Stack Employed:** NextJs, Styled Components.

### Genesys Tech Hub

Aug 2023 – Jun 2024

*A Multi-Competency, Enterprise Transformation & Technology Consulting Firm.*

#### Backend Developer

- I directed a cross-functional team in designing and implementing an instant voice and video communication application.
- Implemented REST APIs that delivered six key features, allowing users to create accounts with their emails or MetaMask, add contacts, and initiate instant calls with their contacts.
- Collaborated effectively with the frontend team to ensure seamless communication between the server and the application's frontend.
- Utilized Peer.js, socket.io, and WebRTC to enable real-time video calling functionality on the frontend, and achieved a success rate of 70% during prototype testing.

**Technology Stack Employed:** React Javascript & Typescript, NodeJS, TypeORM, Express and MySQL.

### Digitstem

Sep 2023 – Mar 2024

*An online digital marketplace that connects buyers to digital product vendors via our highly trained and productive affiliate.*

#### Software Engineer

##### Project Tekskillup

- Partnered with a cross-functional team to create a web-based learning management system tailored for student use.
- Implemented key features like course previews and selection tools, enhancing the user experience for the potential student body.

##### Project Vendgenix

- Employed React.js and CSS libraries to build interfaces that work really well, making it easy for users to navigate and improving the site's overall speed.
- Utilized Next.js to construct an email marketing platform.
- Styled responsive UIs with Tailwind CSS and added interactive data visualizations using Nivo Chart.
- Enacted CRUD operations using Supabase.
- I led a team of developers in the creation of a comprehensive dashboard system. During prototype testing, we achieved an impressive task success rate of 85%, underscoring the effectiveness of our design and the ease of navigation for users.

**Technology Stack Employed:** ReactJs, NextJs, Supabase, and TailwindCSS.

### Eliels

Nov 2022 – Aug 2023

*A retail apparel and fashion company.*

#### Frontend Engineer

- Enhanced website performance through bundle optimization and lazy loading, resulting in a 20% increase in page performance and load time.
- Leveraged React.js and CSS libraries to build a high-performance frontend, achieving seamless user navigation identifiable by user feedback recorded during user acceptance testing.
- Applied the Context API to implement a robust state management system, leading to a significant reduction in unnecessary re-renders and a more responsive user interface.
- Used Axios functions to consummately interact with APIs, ensuring efficient data retrieval and seamless integration, contributing to a significant reduction in data transfer latency.
- Fortified website security by meticulously securing all endpoints, effectively safeguarding user data and confidential information, leading to a remarkable improvement in security strength.

**Technology Stack Employed:** ReactJs, and TailwindCSS.

### Bluetag Technologies

Apr 2021 - Sep 2021

*An educational technology service provider, focused on facilitating education for Africa's next generation, utilizing scalable technology to create sustainable impact*

#### Software Engineer

- Leveraged Entity Framework to efficiently manage databases.
- I explored robust CRUD (Create, Read, Update, and Delete) operations, ensuring seamless user interactions.
- Designed and created efficient database schemas and models, ensuring optimized data storage and retrieval.

**Technology Stack Employed:** C#, and Entity Framework.

Software Engineer

- Managed and updated content on the WordPress website, ensuring accuracy, relevancy, and timeliness of information. Proficiently applied the WordPress content management system (CMS) to publish and organize various types of content.
- Employed optimization techniques to enhance user experience and ensure smooth navigation throughout the website. Carried out best practices for website performance, including image optimization and caching mechanisms.
- Diagnosed and resolved issues related to website functionality, performance, and compatibility. Regularly performed maintenance tasks, including plugin, theme, and core WordPress file updates, to ensure a secure and up-to-date environment

Technology Stack Employed: Wordpress CMS.

PERSONAL PROJECTS

Sign Language Translation Model

- This app was developed to serve as merely a way to detect and translate sign language gestures to English. The detection model achieved an **81% detection accuracy**, enabling real-time gesture-to-English translation for improved accessibility.
- Optimized model training using Python and Jupyter Notebook, leveraging Google Colab for scalable computation and Labellmg for precise data annotation.

Initnaija

A ticket generation and validation system for Initia Community

- In this project I architected and developed a scalable custom ticketing system, replacing a manual Google Forms process, achieving a **70% reduction** in signup time, streamlining event registration for over **110 users**.
- I enhanced accessibility, ensuring **96.4% of users** completed the signup process without issues, significantly improving the event onboarding experience.
- I led **full-stack development**, implementing secure QR code generation and validation, thus ensuring seamless event check-ins.

EDUCATION

Bachelor of Engineering, Electronics and Computer Engineering - University of Nigeria

2016 - 2022

GPA: 4.10/5.0 (Second Class Honors – Upper Division) Relevant

Course Work

- Engineering Computer Programming
  - System Programming
- Microprocessing Systems
  - Software Engineering

PROFESSIONAL CERTIFICATIONS & MEMBERSHIPS

Genesys certified Backend Engineer

2024

Member, Nigerian Society of Engineers

2017