



Manuel Kwarteng Ashong

Full Stack Developer

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 Haatso, Greater Accra. Ghanaian old portfolio

PROFILE

Software engineer with 5 years of client-facing development experience and a First Class in Computer Science. I started coding well before university, so my academic training reinforced what I had already built in practice, not the other way around.

My work cuts across the full stack: frontend, backend, and infrastructure. I've shipped production software across multiple industries and I have a solid grasp of how business operations translate into technical requirements. More recently I've been integrating AI capabilities into the products I build, and that's an area I'm actively developing.

EDUCATION

BSc. Computer Science (First Class),
Central University
2021 - 2025 | Tema, Ghana

WORK EXPERIENCE

2025 - 2026
Haatos, Accra

RS Group of Companies, Software Engineer

- Delivered multiple production systems across a range of product types, including a vehicle services platform (Vehiville), a broadcast CRM tool (RS Notify), an AI-powered website chatbot, and an internal ERP deployment.
- Built custom **WordPress plugins** and **PHP/Laravel** backends from scratch, covering database design, server-side business logic, and **MySQL** integration.
- Worked within a 10-person engineering team, working across a large **React/TypeScript** codebase, multi-app admin dashboard, a user facing application, KYC integration, and role-based access control systems, organized within a **monorepo** structure.

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- Developed and integrated an AI-powered chatbot as a custom **WordPress plugin**, trained on business data, with lead capture and **CRM** connectivity built in.
- Handled server configuration, **Linux** system administration, and production deployments, including **SSL** setup, reverse proxy configuration, and **CI/CD** pipelines.
- Built RS Notify, an internal CRM with **SMS and email** broadcast capabilities, supporting scheduled messaging, marketing campaigns, and customer group management.
- Followed **Agile** methodology throughout, contributing to architecture planning, sprint execution, and cross-team coordination.

ITANDT Solutions Limited [🔗](#)

08/2024 – present
Lagos, Nigeria

Web Developer Intern

- A second internship at **ITANDT Solutions** to further deepen my knowledge as a fullstack engineer, working on various projects, including a **Gift Manager System**, a **Hospital Management System (HMS)**, and an **Accounting System** using **Next.js** in a full-stack capacity.
- Learned and applied backend technologies, including **Express** (Node.js), **Flask (Python)**, **Spring Boot (Java)**, and **PostgreSQL**, to enhance database management skills.
- Exploring **CI/CD** practices to automate testing and deployment processes, ensuring smoother and faster releases.
- Collaborating with cross-functional teams, contributing to both frontend and backend development, while following **Agile methodologies**.

06/2023 – 10/2023
Lagos, Nigeria

Frontend Developer Intern

- Worked on developing the frontend of several web applications, including a **FirstBank Nigeria online money transfer system**, collaborating with a team to implement responsive and user-friendly interface.
- Gained experience in working with **Reactjs**, **Next.js**, **TailwindCSS**, and **Angularjs** for building scalable web applications..
- Improved proficiency in integrating APIs and working with RESTful services, ensuring efficient data flow and seamless user experience.

RELEVANT SKILLS

Frontend Skills

- React/NextJS
- Svelte/SvelteKit
- Tailwind CSS
- HTML/CSS



Backend Skills

- Node.js
- Express
- Spring Boot(Java)
- FastAPI (Python)
- Bun(Ts)



Languages

- JavaScript
- TypeScript
- Python
- C/C++
- PHP
- Bash

Databases

- PostgreSQL
- MySQL
- MongoDB
- SQLite
- Drizzle, Prisma ORMs

Infrastructure & DevOps

- Docker
- Linux server administration
- Nginx, Traefik - Reverse proxy configuration
- CI/CD pipelines

Other

WordPress plugin development
AI Automation Systems
Real-time systems
Version control - Git
Technical Leadership

PROJECTS

2025 – 2026
Haatso, Accra

Vehicle Solutions Platform [↗](#)

React | TypeScript | PHP | WordPress | MySQL | KYC Integration | Paystack | Monorepo

A vehicle solutions platform for users to buy, rent, sell cars, as well as request maintenance.

- Built Vehiville V1 [↗](#) : Wordpress with PHP customization.
- Built Vehiville V2 [↗](#) : Full platform rewrite as a dedicated React application, separate admin system separated and a Flutter mobile application.

Key responsibilities:

- Led the front-end development team
- Worked within a 10+ person engineering team across backend and frontend.
- Developed system architecture.
- Built extensive modular admin platform covering Operations, Marketing, Administration, and , rentals, sales, compliance, and maintenance for the app.

- Developed interfaces with full role based access control, store front cms and multimedia pipeline for platform content management.

2025 – 2026
Lagos, Nigeria

Services Marketplace Platform [↗](#)

React Native | Next.js | Node.js | WebSockets | Microservices | Location tracking

A full product suite built for BridgeX, a dual-user platform connecting service seekers with local providers. Delivered across three systems: a cross-platform mobile app (iOS and Android), a marketing website, and an admin dashboard.

- Fullstack development from frontend, mobile app, backend and the admin console.
- Built real-time in-app chat and live location tracking for active service requests
- Implemented dual-user architecture with separate flows for service users and providers
- Developed an analytics-driven admin dashboard for platform-wide management and oversight
- Integrated real-time push notifications across the mobile app

2026 – 2026
Haatso, Accra

Event Ticket Management System

Ticket validation system for the Africa Real Estate Festival 2026, the largest real estate event on the continent.

- Built an admin backend for entering valid ticket information, and check-in management system end to end
- Built a secure entry portal for validating tickets and marking entry.

Link: private (provided on request)

2026 – 2026
Haatso, Accra

Property Rentals Platform [↗](#)

Next.js | AWS | TypeScript | AI Integration | Express Lambda

A property rental platform built for with an integrated AI assistant to guide users through discovery and booking.

- Fullstack development from frontend, backend and the admin console.
- Deployed on AWS infrastructure with a dedicated admin dashboard for managing properties and displayed information.

05/2024 – 07/2024
Tema, Accra

Tasty Chef - Basic online Marketplace for Food Delivery [↗](#)

Next.js | PostgreSQL | TypeScript | TailwindCSS | Next Auth | PayStack

A full-stack food delivery app for a school project. Worked on both the frontend and backend using **Next.js**.

- Integrated with a PostgreSQL database for data storage, implemented authentication, and connected to an API for payment handling.
- Integrated the PayStack API to handle payments.
- Github TastyChef Live demo [↗](#)

07/2024 – 2025
Tema, Accra

Hostel Booking Project [↗](#)

Next.js | Supabase | PostgreSQL | TypeScript | TailwindCSS

- Developed a Hostel Booking Management System using React.js, Next.js, and Node.js to facilitate seamless room reservations for hostels.
- Implemented core features such as room availability tracking, guest check-in/check-out management, and payment processing via third-party APIs. Designed and maintained a relational database (SQL) for storing information about room types, bookings, and user data, ensuring data integrity and efficient querying. B
- Focused on creating a clean, responsive UI with Tailwind CSS, providing a smooth user experience across devices.
- Worked on backend APIs to handle CRUD operations for bookings, users, and rooms, ensuring reliable data handling and business logic.
- Link to NextJS Codebase [↗](#) (on Google drive, as GitHub repository is currently private) Link to Live Deployment [↗](#)

08/2024 – 09/2024
Lagos, Nigeria

Gift Management System

Next.js | TypeScript | TailwindCSS | MySQL

Collaborated with a Superior at ITANDT Solutions on developing a Gift Management and Distribution System tailored for charitable organizations, enabling efficient tracking and distribution of gifts to registered beneficiaries including features such as:

- a robust inventory system to manage gifts
- automatically updating stock levels upon each distribution.
- beneficiary registration with unique ID assignment, enabling detailed tracking of who received gifts, when, and how often and ID card generation,

I specifically worked on:

- Rewriting the codebase in typescript and docker deployment.
- Improving identification and streamlining the gift distribution systems.
- Aiding frontend and backend development with React.js/Next.js.
- Backend logic with MySQL and Next.js API routes
- Integrated **SWR** for efficient data fetching and real-time updates, with **debounced search** functionality for seamless filtering and sorting of reports.

(private git repository due to confidentiality)

08/2023 – 10/2023
Lagos, Nigeria

First Bank Money Transfer [↗](#)
Next.js | TailwindCSS

Worked on the frontend of a new **FirstBank Nigeria** online money transfer system across multiple countries, utilizing **Next.js** and **TailwindCSS** to build a responsive and scalable UI. *(Full Repository is private due to confidentiality)*

INTERESTS

Game Development [↗](#)

Early stages of learning to program. (Godot, LibGDX)

YouTube [↗](#)

Creating game development related videos

Linux Ricing

Arch + Hyprland

Neovim

I use vim primarily as my code editor