

Manuel Kwarteng Ashong

Full Stack Developer

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manueldiamond | 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

06/2026 – Present
Ajingarnor, Accra

Software Engineer, *Nova Create Hub | Resource For Development (RFD)*
- Contributed to and actively maintained the shared React/TypeScript component library every product in the CLET ecosystem is built on, covering the data table, layout shell, form inputs and theming system. Including adding Skills and MCP support for faster AI assisted development with the library, speeding up development across multiple product teams.
- Re-engineered the library's bulk-import system, replacing a blocking modal capped at a few thousand rows with chunked processing that keeps parsing and validation off the main thread, scaling it to handle up to 1 million of records with real-time validation.

- Built a reusable API integration convention used across the frontends, providing typed endpoint definitions, query and mutation hooks, automatic file upload handling, and consistent error and notification handling.
- Worked in a team of 2 to build and maintain the shared starter template new projects are scaffolded from, covering routing, authentication, layout and API wiring out of the box. Set frontend conventions and shared standards the wider team builds against.
- Built a credential verification platform, including QR code generation and scanning, bulk credential issuance, fraud triage with SLA tracking, and revocation workflows. Scoped the public facing surfaces into completely separate React applications so no functionality or state leaks between public and authenticated contexts.
- Developed the frontend for an API registry and developer portal, documenting every service and its endpoints, issuing and managing scoped API keys, and providing a graphical overview of all systems and their dependencies.
- Developed the frontend for CLET GRC platform spanning ten regulatory modules, including risk registers, controls, policy, audit and compliance, with review, approval and escalation workflows.
- Built an internal IT service desk with guided ticket intake, queue routing, group and agent assignment, and role-aware dashboards.
- Provided support and integration across multiple frontends for a websites CMS and internal communications platforms.
- Migrated several existing applications design system, replacing bespoke layouts, tables and filters with shared, unified components.
- Found and resolved latency in Python/Django backend services, bringing down request latency.
- Resolved blockers across multiple frontend teams, covering build and deployment configuration, content security policy, and cross-application authentication.

2025 – 2026
Haatos, Accra

Software Engineer, *RS Group of Companies*

- 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.

- 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, separete 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
Nextjs | PostgresSQL | 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)

Linux Ricing
Arch + Hyprland

YouTube
Creating game development related videos

Neovim
I use vim primarily as my code editor