KAFUI KOFI KUMAH

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PROFESSIONAL SUMMARY

Kafui is full-stack software engineer, product designer, and web designer with a decade of experience building and deploying digital frontend and backend software infrastructure for startups, agencies, and institutional clients. My focus is on developing responsive user interfaces for enhanced user experience, while ensuring security and robust data management. As Founder of Nerdion Systems, I leverage a wide range of tools and languages to design and develop decision-support tools and innovative solutions for organizations working on consequential challenges, serving both commercial and development sector clients.

PROFESSIONAL WORK EXPERIENCE

Nerdion Systems, Ghana
Founder | September 2020 – Present.

- Lead all business operations, client strategy, solution architecture, product design, engineering delivery, and post-launch support.

- Build decision-support tools, data intelligence platforms, and monitoring systems for international development organizations, governments, and institutional clients

- Deliver full-cycle digital products across a broad range of domains including SaaS applications, e-commerce platforms, mobile apps, web design, custom dashboards, and internal business tools.

- Manage a growing portfolio of client partnerships spanning national and regional levels, working with organizations at every scale, from early-stage startups to regional institutions and global bodies.

- Oversee end-to-end product development, including taking projects from discovery and architecture through design, engineering, deployment, maintenance and training.

Off-Web, Ghana
Founder and Principal Web Designer | May 2024 – Present.

- Designed and developed the website, with a tracking system and a custom AI customer service assistant for Global Logistics & Transport which contributed directly to the company securing $350,000 in seed funding.

- Engineered and developed conversion-focused websites utilizing modern web stacks and best practices for clients across e-commerce, finance, hospitality, and professional services sectors.

- Managed the full software development lifecycle for web projects, encompassing UX strategy, visual design implementation, content integration (copywriting), and robust development from initial brief to successful launch.

- Cultivated a client base of 50+ businesses, leveraging technical delivery excellence to drive growth through referrals and repeat engagements, consistently ensuring on-time project completion.

- Led the company's transition to fully remote operations by designing and implementing the complete remote work infrastructure, including tools for workflow management, team communication, and accountability across a distributed team.

Dandelo, Ghana
Senior UI/UX Designer, Web Developer | February 2022 – October 2024

- Engineered and launched Ansyla, a Massive Open Online Course (MOOC) platform with robust backend development using Python/Django and secure database management (PostgreSQL) to handle user data, course progress, and payments. I was responsible for feature identification, performance analysis, design requirements, user research, and iterative product improvement, including implementing data visualization dashboards for tracking course engagement and platform usage.

- Drove growth for multiple e-commerce clients through integrated digital marketing strategies, increasing traffic, reach, and sales across client storefronts and social media channels. Implemented security best practices for client data protection and integrated custom reporting tools for advanced data visualization of campaign performance.

- Curated a library of 70+ vetted learning resources adopted by 300+ career-changers and graduates entering the technology industry, including modules on fundamental backend development, database management (SQL/NoSQL), and application security.

Intelligent Building Solutions, Ghana
Lead Developer | August 2021 – January 2022

- Designed and developed a full Enterprise Resource Planning (ERP) platform using Laravel (Blade), Node.js, MySQL, and Redis, covering client management, supply chain, resource tracking, and employee time logging. Integrated REST APIs, a reporting engine with PDF export, an email notification system, an analytics dashboard, and deployed the full system via Docker.

- Collaborated with the accounting department to build and integrate a payroll module into the ERP using Python, automating salary calculations, tax deductions, and financial reporting with structured data exports for accounting workflows.

- Coordinated with electrical engineers to implement IoT solutions (including sensors, smart lighting, solar panels, and Google Home systems) in various commercial and institutional settings, such as banks, training centers, and data centers.

Milk The Sun, Germany - Remote
Fullstack Developer | December 2019 – July 2021.

- Built a new frontend advertising feature using PHP, Symfony, and MySQL, consuming backend APIs to dynamically serve and manage ad placements across the Milk The Sun Solar Brokerage platform, expanding its commercial capabilities.

- Shipped a full user state management system in PHP/Symfony handling in-app emails, notifications, and pop-ups, backed by MySQL, resulting in a significant increase in user engagement across the platform.

- Designed and implemented an interactive client dashboard using PHP/Symfony and MySQL, to give customers a centralized view of their activity, account settings, and transaction history with real-time data updates.

- Built a search and filtering system across the platform using MySQL full-text search and Symfony query optimization, reducing load times and improving content discoverability for thousands of users.

Roots Digital, Ghana
Software Developer, UI/UX Designer | September 2018 – November 2019

- Designed, developed, and implemented a water and recycling application with Swift(iOS) for the Government of Ghana (Ministry of Sanitation and Water Resources and Ghana Water Company Limited), incorporating robust API networking for data exchange. Significantly improved the user experience to drive behavioral change in line with the Ministry's campaign on sanitation and responsible water use.

- Designed and developed a map-based event ticketing app in collaboration with MTN to deliver free tickets for events based on a tokenized reward system.

Ghana Grid Company Limited(GRIDCo), Communications Department(GRiDTel)
Associate Telecommunications Engineer | September 2017 – August 2018

- Performed various fiber splicing works during major projects, emergency projects and maintenance works at Dawa Substation, Volta 330KV Substation, Afienya Substation, Winneba Substation, Achimota Substation, VRA Offices at Ministries, improving Network Transmission by 340%.

- Conducted Fiber Trace Analysis, including Fiber Auditing and Continuity Tests, utilizing an Optical Time Domain Reflectometer (OTDR) to accurately measure and minimize losses across fiber optic cables.

- Provided technical assistance for routine maintenance and troubleshooting of computer and networking equipment at the Main Tema Substation, ensuring continuous operation.

EDUCATION

2013 - 2017   **Kwame Nkrumah University of Science and Technology, Kumasi**
BSc. Telecommunication Engineering.

Relevant Courses: Digital Signal Processing, Computer Applications and Project Design, Digital Communication Systems, Operating Systems.

SKILLS & TOOLKIT

Programming

- **Frontend:** Next JS, TypeScript, React JS, Vue JTailwind CSS, Material UI, Chakra UI, JavaScript, jQuery.
- **Backend:** Node JS, Express JS, PHP, Laravel, Symfony, Python.
- **Mobile:** Swift (iOS), React Native.
- **Database & BaaS**: PostgreSQL, MySQL, MongoDB, SQLite, Supabase, Redis, Firebase.
- **APIs & Integration:** REST APIs, GraphQL.

Design and Creativity

- **Product Design**: Visual Design, UX Design, Interaction Design, User Research, Design System, Mobile App Design, Wireframing, Prototyping.
- **Web Design**: Figma, Framer, Webflow, Wordpress, WIX.