Charles Njoroge

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I am a dedicated ICT Officer and Full-Stack Software Developer with a strong foundation in information technology systems, infrastructure support, and web or mobile based software solutions.. With a proven track record in both public sector ICT consultancy and freelance development, I bring a versatile skill set that spans system analysis, database management, software design, and technical support. My experience includes developing and maintaining scalable web applications using the MERN stack, as well as providing ICT consultation and support services in institutional environments. I am passionate about leveraging technology to solve real-world problems, streamline operations, and support digital transformation. With a focus on continuous learning and adaptability, I thrive in dynamic environments where innovation and practical implementation intersect.

💼 WORK EXPERIENCE

ICT Officer Intern at Kenya Institute of Surveying and Mapping
05/2024 – 10/2024 | Nairobi, Kenya

– Created and maintained LAN and Wi-Fi networks, ensuring reliable connectivity across the institute.
– Diagnosed and repaired computers and peripheral devices, including troubleshooting legacy hardware such as an old printer by researching manuals and applying systematic problem-solving techniques.
– Monitored network performance and optimized configurations to enhance system uptime and reliability.
– Maintained detailed documentation of network configurations, repairs, and maintenance activities.
– Collaborated with IT team members and provided technical support to end-users, improving response times and user satisfaction.
– Achieved faster repair turnaround times through efficient troubleshooting and proactive maintenance.

Freelance FullStack Developer at Upwork
01/2023 – Present | Remote

– Developed server-side applications and RESTful APIs, managing the codebase with Git for version control and collaborative development.
– Utilized Docker containers for development and deployment to ensure consistent environments.
– Designed and consumed GraphQL endpoints to optimize data fetching and API efficiency.
– Developed and maintained websites, mobile apps, and custom software systems from scratch or by repairing existing solutions, primarily using the MERN stack and React Native with TypeScript.
– Designed and implemented a mobile sales app (UzaExpress), integrating a GraphQL backend to optimize data management and user experience.
– Improved user workflows by enhancing the create order process, reducing redundancy through pre-population of user data from previous orders.
– Managed projects using Agile methodologies, Git version control, and coordinated team communication through Slack and Jira to ensure timely delivery.
– Collaborated effectively with developers, designers, and clients to deliver high-quality frontend and backend solutions, with a focus on frontend development.
– Achieved measurable performance improvements and high client satisfaction through continuous optimization and responsive support.

🛡 EDUCATION

BSc. Computer Science at Chuka University
09/2021 - 04/2025 | Chuka

Building and managing computer systems and networks.

Secondary School Education at Ziwani Boys High School
01/2017 - 11/2020 | Nyahururu

Secondary School

☆ SKILLS

Software Development MERN Stack Dev, Network creation, Network maintenance, Repair of computers and devices, React.js, Next.js, TypeScript, Express.js, Node.js, MongoDB, Mongoose, RestfulAPI, API integrations, Frontend, Backend, communication, Mobile App Development, React Native, Tailwind CSS, Figma, CSS, Java, Agile Methodologies, Docker, CI/CD, GraphQL, Git & GitHub, Jira, Slack, RESTful APIs, Version Control, Troubleshooting & Debugging, Network Monitoring, Technical Support

<> PERSONAL PROJECTS

E-Commerce Web Platform
– Built a full-stack e-commerce platform using MERN with TypeScript, featuring product management, cart/checkout flow, secure authentication, and an admin dashboard. Backend built with Express + Mongoose and hosted on Render; frontend built with React + TypeScript and deployed on Vercel.
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Business Point Of Sales
– Developed a web-based POS system with real-time sales tracking, inventory control, receipt generation, and multi-user access. Implemented a TypeScript Express API with Mongoose models hosted on Render, and a responsive React frontend deployed on Vercel.

Personal Portfolio Website
– Designed and deployed a clean, responsive personal portfolio using React + TypeScript, showcasing projects, skills, and contact info. Hosted on Vercel with optimized performance and modern UI components

Real Estate Web System
– Created a property viewing and management platform where users can browse listings, view details, schedule visits, and engage with agents. Leveraged a scalable TypeScript backend (Express/Mongoose) on Render and a modern React UI deployed on Vercel.

E-Commerce Mobile Application
– Built a React Native mobile app connected to the same MERN + TypeScript backend as the e-commerce website. Supports product browsing, ordering, user accounts, and push notifications. Backend hosted on Render with reusable API endpoints.

🌐 LANGUAGES

English (Full Professional Proficiency), Swahili (Native or Bilingual Proficiency), Kikuyu (Native or Bilingual Proficiency)

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