

COLLINS KIPRUTO KIPTOO

Full-Stack Software Engineer

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PROFESSIONAL SUMMARY

Full-stack Software Engineer with 4+ years building web applications end to end — responsive front-ends, scalable APIs, robust databases, and cloud deployments. Experienced across healthcare, agriculture, and enterprise systems, having delivered ERP platforms, traceability systems, and laboratory information management software. Comfortable across React and Angular on the front-end; Node.js, Python, and Java (Spring Boot) on the back-end; with PostgreSQL, MySQL, and MongoDB, deployed on AWS and Azure using Docker and Kubernetes. Delivers clean, testable, maintainable code and collaborates closely with cross-functional teams. Currently pursuing an MSc in Artificial Intelligence.

TECHNICAL SKILLS

Front-End: React, Angular, React Native, JavaScript (ES6+), HTML5, CSS, Redux

Back-End: Node.js, Express, Python (Flask, Django), Java (Spring Boot), RESTful APIs, third-party integrations

Databases: PostgreSQL, MySQL, MongoDB, Firebase — schema design, queries, migrations

Cloud & DevOps: AWS, Azure, GCP, Docker, Kubernetes, Traefik, LetsEncrypt, CI/CD

Practices & Tools: System design, scalability, security, system testing, Agile, Git & GitHub, Jira

PROFESSIONAL EXPERIENCE

ICT Officer (Software Engineer) | Moi Teaching and Referral Hospital, Eldoret *Jun 2025 – Present*

- **LIMS** – Enhanced the Laboratory Information Management System, improving sample tracking and reducing lab reporting turnaround time by ~30%.
- **ERP Modules** – Built and deployed backend ERP modules across finance, HR, and inventory, plus clinical and administrative workflows for hospital-wide operations.
- **Reliability** – Provided ongoing system support and optimisation, reducing downtime and improving data reliability for hospital-wide decision-making.
- **Collaboration** – Worked with clinicians, administrators, and IT staff to identify bottlenecks, design solutions, and train end-users for smooth adoption.

Senior Software Engineer | Renga Tech, Nairobi *Jan 2025 – Jun 2025*

- **Solichain** – Architected and built a blockchain-enabled traceability platform, focusing on scalable data handling and secure transactions.
- **Renga ERP** – Led development of backend services and APIs for timesheet, CRM, and project-management modules.
- **MEL Software** – Developed Monitoring, Evaluation & Learning software, improving data collection, analysis, and reporting accuracy across projects.
- **Quality** – Enforced code-quality standards through structured code reviews; mentored developers and championed Agile delivery.

Full Stack Software Engineer | Renga Tech, Nairobi *Jun 2022 – Dec 2024*

- **Traceability System** – Built the National Horticulture Traceability System with a Spring Boot backend and Angular web + Flutter mobile clients.
- **Clinic Management** – Designed and deployed a cloud-hosted MERN-stack Clinic Management System for reliable patient and staff management.
- **Real-time Systems** – Built and maintained the SOS Global System for SOS Children's Villages Rwanda with real-time monitoring features.

- Delivered a scalable project-management platform with task-tracking and reporting; led projects end-to-end with on-time signoff.

Junior Software Engineer | Renga Tech, Nairobi

Nov 2022 – May 2023

- Developed and maintained core functionality for the SOS Children's Global Project, ensuring reliability and efficiency.
- Contributed to the National Horticulture Traceability System and Coffee Information & Management Portal through development, testing, UAT, and deployment.
- Worked with senior engineers to enforce best coding practices and strengthen system security; active in Agile sprints.

Software Engineering Intern | KBC, Nairobi

Apr 2022 – Nov 2022

- Provided IT support, deployed solutions to cloud servers, and built data-driven applications.
- Enhanced ERP systems for performance and reliability, and maintained the Election Management System codebase.

System Administrator (Consultant) | Karen Family Mart, Nairobi

Jul 2021 – Nov 2022

- Configured and maintained servers, storage, and backup systems, ensuring business continuity.
- Integrated Microsoft Dynamics RMS with QuickBooks and optimised data systems for performance and accuracy.

EDUCATION

MSc, Artificial Intelligence — The Open University of Kenya

Mar 2025 – Present

Coursework and research in machine learning, deep learning, NLP, and AI ethics.

BSc, Computer Science — The Catholic University of Eastern Africa (CUEA)

May 2019 – Aug 2024

Relevant coursework: Database Systems, Data Structures & Algorithms, OOP, Distributed Systems, Computer Networks, Web Development, Big Data Analysis, Software Project Management.

Software Engineering Programme — Moringa School, Nairobi

Jun 2024 – Feb 2025

Full-stack development with Python, Flask, SQL, JavaScript, React, and Redux.

REFEREES

Mr. Abel Kiprop — Ag. Manager, ICT, MTRH • +254 727 911444 • abelkiprop@mtrh.go.ke

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