COLLINS RUTO

Full Stack Software Engineer

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- **GitHub:** https://github.com/Collins-Ruto
- **Portfolio:** https://collinsruto.vercel.app
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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 3+ years of experience designing, developing, and maintaining scalable web and mobile applications. Strong background in **system architecture**, RESTful API development, database design, and secure payment integrations. Experienced in **AWS-adjacent cloud services**, **Firebase**, **Vercel**, and **Docker-based development workflows**. Proven ability to work effectively in **Agile/Scrum team environments**, collaborate cross-functionally, and deliver high-performance, secure software solutions.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Dart, Rust

Frontend Technologies: React.js, Next.js, HTML5, CSS3, Tailwind CSS

Backend Technologies: Node.js, Express.js, RESTful APIs, tRPC

Databases: MongoDB, MySQL, Firebase, GraphCMS, Prisma (ORM)

Cloud & DevOps: AWS (EC2, S3 – working knowledge), Firebase, Vercel, Docker, CI/CD pipelines

Authentication & Security: NextAuth, Role-Based Access Control (RBAC), Secure API Middleware

Tools & Environment: Git, GitHub, Linux (Arch), VS Code, Neovim, Tmux, Android Studio

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WORK EXPERIENCE

Software Engineer / Full Stack Developer

Eldama Ravine Education Foundation (EREF)
May 2024 – Present

- Designed and implemented **system architecture** for a scalable event registration and foundation management platform using **Next.js, Node.js, and Firebase**.

- Developed and maintained full-stack web applications with secure RESTful APIs and database integrations.
- Integrated **M-Pesa Daraja** and **KCB Buni APIs** for secure mobile payments, including real-time callback handling.
- Deployed applications using **Vercel serverless functions** and cloud-based infrastructure.
- Collaborated within a **cross-functional Agile/Scrum team** of 5 developers using Git-based workflows.
- Implemented CI/CD pipelines to automate testing and deployment processes.
- Optimized application performance, SEO, and reliability to improve user experience and system availability.

Freelance Software Engineer

2022 – 2024

- Built and deployed multiple full-stack web applications using **React, Next.js, Node.js, Express, and MongoDB**.
- Designed scalable backend **system architectures** and APIs to support growing user bases.
- Implemented authentication, authorization, and security best practices across applications.
- Containerized applications using **Docker** for consistent development and deployment environments.
- Worked independently and collaboratively with designers and stakeholders following **Agile development principles**.

Web / Web3 Developer Lead & Treasurer

TUM Developers Club
2022 – 2024

- Led development teams in building web and Web3 applications using modern JavaScript and TypeScript stacks.
- Designed decentralized and real-time systems, contributing to teams that won **three hackathons**.
- Organized and conducted workshops on Linux, system setup, smart contracts, and modern web development.
- Coordinated development tasks using **Agile/Scrum methodologies**, ensuring timely delivery of features.
- Collaborated with industry partners to organize major technology events (Google I/O, AWS Community, Atlassian, Flutter etc).

EDUCATION

Bachelor of Technology – Marine Engineering |
Technical University of Mombasa
2021 – 2024
Second Class Upper Division

KCSE | UZALENDO SECONDARY SCHOOL
2016 - 2019
Attained B+ in the Kenya Certificate of Secondary Education

KCPE | KOKWOMOI PRIMARY SCHOOL
2008 - 2015
Attained 372 points in the Kenya Certificate of Primary Education

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CERTIFICATIONS

- **NEAR Protocol Rust Smart Contracts Development** | NEAR Academy / BitKE Web3 devs Club (Jun - Aug 2022)
- **SUI DeFi Development (Move)** | dacade.org (May - Jul 2024)
- **Internet Computer Protocol (ICP) Rust & TypeScript 101/201** | dacade.org (May - Jul 2024)
- **IEBC Voting Clerk Certificate** | IEBC Kenya (Sep 2025)

LANGUAGES

- English
- Swahili

ADDITIONAL EXPERIENCE

Voting Clerk
Independent Electoral and Boundaries Commission (IEBC)
August 2022 | September 2025

- Worked in a high-pressure, time-sensitive environment requiring accuracy and strict adherence to procedures
- Collaborated with cross-functional teams to ensure smooth and compliant operations
- Maintained data integrity, confidentiality, and professional ethics

Marine Engineering Industrial Attachment
Kenya Ports Authority (Ferry Services)
September 2022 & September 2023 (6 months total)

- Assisted in maintenance and inspection of marine propulsion and auxiliary systems

- Operated under strict safety, compliance, and operational standards in a regulated environment
- Worked within multidisciplinary technical teams, strengthening attention to detail and accountability

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REFERENCES

- **Abiud Kigen**
  - **Phone:** +2547 2450 4563
  - **Email:** abiudkigen09@gmail.com
  - EREF Foundation