

Richard Miruka Onsare

Code Quality Analyst | Technical Mentor | Full Stack Software Engineer

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PROFESSIONAL SUMMARY

Detail-oriented Code Quality Analyst and Full Stack Software Engineer with 4+ years of hands-on technical experience in software development, production-standard code review, and technical training. Proven ability to evaluate trainee and production-level code across Full Stack, Data Science, and DevOps disciplines; providing actionable, structured feedback that accelerates learning and upholds engineering quality standards. Proficient in applying AI-powered tools, automated static analysis, and CI/CD integrations to streamline code review workflows. Passionate about mentoring developers, translating complex technical issues into clear, teachable moments, and driving engineering excellence through rigorous standards for security, performance, readability, and documentation. Remote-ready with strong command of virtual collaboration tools including MS Teams, Slack, Zoom, and Google Workspace.

CORE COMPETENCIES

Code Review & Quality Analysis

- Production-standard code review across Full Stack (HTML/CSS, JavaScript, React, Angular, Node.js), Data Science (Python, ML workflows), and DevOps (Docker, Kubernetes, GitHub Actions, AWS)
- AI-powered & automated code review using GitHub Copilot, static analysis tools, linters, and CI/CD pipeline integrations (GitHub Actions, AWS CodePipeline)
- Enforcement of security best practices, performance optimization, code readability, and technical documentation standards
- Capstone project evaluation — designed and administered 100+ formative assessments, code reviews, and project rubrics aligned to production standards

Technical Mentorship & Instructional Design

- Trained 600+ learners (youth, adults, university students) in software engineering, data science, and emerging technologies
- Translating complex code quality issues into clear, actionable feedback and structured learning moments for trainees at all levels
- Curriculum and assessment design using ADDIE, project-based learning (PBL), and the Feynman Technique for deep conceptual transfer
- 1-on-1 and group mentoring on code quality, portfolio development, employability skills, and career readiness for tech roles

Technical Stack

- Languages: Python (Advanced), JavaScript/TypeScript (Advanced), C/C++, SQL (Advanced), PHP, Java
- Backend: Node.js, Express.js, Django, Flask, FastAPI, Spring Boot, Laravel | Frontend: HTML5, CSS3, React.js, Angular
- Databases: PostgreSQL, MySQL, MongoDB, Redis | DevOps & Cloud: Docker, Kubernetes, GitHub Actions, AWS, Digital Ocean
- AI/ML & Review Tools: GitHub Copilot, ChatGPT, Google Gemini, Google Colab, ESLint, Prettier, SonarQube
- Collaboration & Remote Work: MS Teams, Slack, Zoom, Google Workspace, Trello, Google Classroom, Jira

PROFESSIONAL EXPERIENCE

Web Developer & ICT Instructor | Ta'awun Trust Organization

Jan 2025 – Present | Nairobi, Kenya

- Conducted structured, production-standard code reviews of trainee projects across HTML5, CSS3, JavaScript, and Python — providing targeted, actionable feedback to 180+ youth and adult learners
- Designed and administered 250+ formative assessments and capstone code evaluation rubrics covering readability, security, performance optimization, and documentation standards
- Integrated AI-powered tools (GitHub Copilot, ChatGPT, Claude, Google Gemini) into the curriculum to demonstrate real-world code quality workflows, automated review best practices, and industry-grade development habits
- Mentored learners individually on debugging strategies, clean architecture principles, and technical documentation; resulting in 85% of trainees delivering fully deployable web projects
- Achieved a 40% increase in portfolio-ready projects by embedding structured peer code review sessions and project-based learning into the training pipeline
- Facilitated remote-friendly, collaborative learning via Zoom, MS Teams, Slack, and Google Workspace — boosting learner confidence in virtual collaboration tools by 30%

Technical Instructor | KIEP – SKIES Project (Kenyatta University) *Feb 2023 – Sep 2024 | Nairobi, Kenya*

- Delivered hands-on training in Data Science, Machine Learning, Artificial Intelligence, Cybersecurity, and Software Engineering for 260+ university students — reviewing and evaluating all code submissions against production standards
- Guided project-based learning where students designed AI and cybersecurity prototypes, applying secure coding practices, code quality principles, and technical documentation to real-world problems
- Mentored learners through iterative code critique, presentations, and group reviews — many students secured internships and research opportunities in technology innovation
- Incorporated AI productivity tools and cloud platforms (GitHub Copilot, Google Colab, AWS) to demonstrate professional-grade development workflows and industry-ready coding standards
- Applied adult learning theory and the Feynman Technique to ensure complex code review feedback translated into measurable, lasting improvements in trainee output quality

Frontend Web Developer Intern | iTalanta (Apprenticeship) *Jun 2022 – Dec 2022 | Nairobi, Kenya · Hybrid*

- Contributed to open-source software development — built features from technical specifications across UI, state management, and CRUD/validation-based backend logic following SDLC best practices
- Applied well-structured, feature-level design patterns in modern web architectures; guided peers on implementation strategies and code quality standards within the application domain
- Developed and institutionalized reusable component structures for common UI and backend problems, improving team-wide development consistency and reducing code duplication
- Gained hands-on experience with PostgreSQL, HTML/CSS, JavaScript, application architecture, and collaborative software development in a hybrid team environment

EDUCATION & CERTIFICATIONS

Postgraduate Diploma in Software Engineering *Jun 2024*
ALX Africa (Holberton School)

Certificate in Full Stack Software Development *Nov 2023*
Moringa School

BSc. Land Resource Planning & Management (GIS Specialization) — 2nd Class Upper *Nov 2019*
Jomo Kenyatta University of Agriculture and Technology (JKUAT)

Master's Certificate in Project Management (In Progress)
European Business University of Luxembourg

SELECT PROJECTS

- [Taawun Trust Organization Website](#) — Full stack web application (JavaScript, CSS, RESTful backend APIs)
- [School Management System LMS](#) — Built with Django/Python; features user roles, automated assessments, and reporting dashboards
- [E-commerce Website](#) — RESTful backend with Node.js, Express.js, and MongoDB; includes full CRUD and validation logic.
- [GariHub-Kenya](#) — A full car marketplace where people can enlist their cars for sale and others can buy those second-hand cars.
- [Tours & Travel Website](#) — Responsive frontend with dynamic data integration and cross-device compatibility.
- [Kazi Job Connectorzi](#) — A Hyper local Informal Job-Connector that Connect workers with employers in real-time. USSD + WhatsApp + REST API. Built for low-data environments. Works on any phone.
- [Student Curriculum Repository](#) — Structured digital content repository for learner-facing curricula and assessment materials.

REFERENCES

Devel Wanyama — Principal, Ta'awun Vocational College | +254 745 462 755 | develwamanya@gmail.com

Sharoun Agamu — Software Developer & ICT Trainer | +254 708 810 442 | madoyasharoun@gmail.com

Available for immediate engagement | Remote-ready | Open to travel up to 80% across the world.