

Richard Kinyua

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♂ male

Profile

Innovative and results-driven Software Developer with proven expertise in problem-solving, technical design, and teaching. Successfully led the development of Egerton University's first online election system, ensuring secure and malpractice-free elections. Passionate about mentoring and pioneering impactful solutions through human-centered design. Adept at creating scalable systems and fostering knowledge sharing, I bring a blend of technical expertise and a commitment to driving innovation in the tech space. Currently pursuing a Master's in Computer Science, with a focus on building cutting-edge platforms that bridge education, technology, and sustainability.

Memberships and Affiliations

- **Association for Computing Machinery (ACM)** Member since December 2024 Membership Number: 0115383

Professional Experience

2023/11 – present

Nakuru, Kenya

Software Developer

Egerton University – Dean Of Students ☑

- Spearheading the enhancement of the university's **Online Voting System**, introducing new features and ensuring the platform's scalability, reliability, and security for seamless elections.
- Collaborated closely with stakeholders to gather feedback and implement user-centered features, maintaining a high satisfaction rate among students and staff.
- Conducting ongoing system optimization and support to guarantee performance and compliance with modern technological standards.

2024/08 – present

Nakuru, Kenya

Web Designer & Developer

Egerton - CIWAB, FACULTY OF ENGINEERING & TECHNOLOGY DEPARTMENT OF AGRICULTURAL ENGINEERING ☑

- Led the development of a **knowledge-sharing platform** for sustainable water resource management, aligning with national goals and global aspirations.
- Built a robust framework for data inputs, knowledge development, dissemination, and feedback to bridge knowledge gaps among stakeholders.
- Collaborated with cross-disciplinary teams to address critical water resource challenges, incorporating principles of Integrated Water Resource Management (IWRM).



2024/09 – present

Nakuru, Kenya



Part-Time Technical Assistant

Egerton University – Computer Science Department

- Delivered technical instruction and support to students in the Computer Science Department, fostering a deep understanding of programming and software engineering concepts.
- Assisted in designing curriculum-aligned projects, enabling students to apply theoretical knowledge to practical solutions.
- Developed and maintained teaching materials, enhancing the quality of the learning experience.

2024/11 – present Nakuru, Kenya	Software Developer and Consultant <i>Egerton University – Counseling Department</i>  <ul style="list-style-type: none"> Designed and developed a prototype for a crowdfunding platform aimed at supporting students in raising educational funds, with a focus on usability and efficiency. Engaged with the Counseling Office to align platform features with the university's vision and mission, ensuring the prototype met institutional and user needs. Currently leading the iterative development process to build and deploy the platform while coordinating with cross-functional teams.
2024/12 – present Nakuru, Kenya	Lead Software Developer <i>Innosync Solutions Limited</i> <ul style="list-style-type: none"> Developing innovative web and mobile solutions to address client needs. Leading project delivery, integrating modern technologies, and mentoring team members.
2020/01 – present	Freelance Software Developer <ul style="list-style-type: none"> Delivered tailored software solutions to various clients, showcasing adaptability and proficiency in multiple programming languages and frameworks. Specialized in human-centered design, ensuring products aligned with client needs while maintaining technical excellence. Built a strong reputation for delivering projects on time and within budget, securing repeat business and referrals.
2024/05 – 2024/09 Nakuru, Kenya	Volunteer Technician <i>Egerton University – Computer Science Department</i> <ul style="list-style-type: none"> Provided hands-on technical support for departmental activities, including setting up lab environments and troubleshooting software issues. Assisted in organizing coding workshops and hackathons to promote innovation among students. Supported system maintenance and upgrades, ensuring uninterrupted operations within the department.
2024/02 – 2024/05 Nairobi, Kenya	Front-End Engineer Intern <i>Jahazii</i>  <ul style="list-style-type: none"> Designed and implemented the Jahazii Platform, providing an intuitive and interactive user experience tailored to specific project goals. Ensured the platform met performance benchmarks and adhered to modern UI/UX standards.
2023/05 – 2023/07 Meru, Kenya	ICT Assistant <i>Imenti Tea Factory</i> <ul style="list-style-type: none"> Worked under the ICT Manager (System & Database Administrator) to manage and maintain critical IT infrastructure. Gained hands-on experience in database management, system administration, and IT support for enterprise operations. Provided innovative solutions to optimize data workflows and improve system efficiency.

Education

2024 – present Nakuru, Kenya	Master of Science in Computer Science <i>Egerton University</i> 
2020 – 2024 Nakuru, Kenya	Bachelor of Science in Computer Science <i>Egerton University</i> 

Skills

Web Technologies

- HTML5, CSS3, Tailwind CSS, Bootstrap, WordPress, Drupal, web server management (Apache, Nginx)

System Administration

- Windows/Linux server management, Active Directory, DNS, DHCP, Docker, Kubernetes, Ansible

Programming & Development

- Python, JavaScript, PHP, Java, C, Flutter, React Native, Node.js, Express, Laravel

Cloud & Virtualization

- AWS, Google Cloud, Azure, VMware, Hyper-V, serverless computing, CI/CD pipelines (Jenkins, GitLab, CircleCI)

Teaching & Training

- Instructional Design, Mentorship & Coaching, Knowledge Sharing, Student Support & Guidance, Collaboration & Teamwork

Database Management

- MySQL, PostgreSQL, MongoDB, Redis, database optimization and performance tuning

Mobile Development

- Cross-platform apps using Flutter and React Native

Project Management

- Agile (Scrum, Kanban), Jira, Trello, task prioritization, time management

DevOps & Automation

- Terraform, Docker Compose, Ansible, Git, CI/CD pipelines, automation of infrastructure

Soft Skills

- Problem-Solving, Leadership & Mentorship, Adaptability, Collaboration & Teamwork, Empathy & Human-Centered Design

Certificates

- LFS147: Introduction to AI/ML Toolkits with Kubeflow [🔗](#)
- LFW111: Introduction to Node.js [🔗](#)
- LFD103: A Beginner's Guide to Linux Kernel Development [🔗](#)
- JavaScript Essentials 1 [🔗](#)
- Introduction to Data Science [🔗](#)
- LFC108: Cybersecurity Essentials [🔗](#)
- LFS101: Introduction to Linux [🔗](#)
- Introduction To Human-Centered Design
- Networking Basics [🔗](#)

References

Dr Zachary Bosire, *Chairperson of department*, Egerton University
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