

John Okari

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Personal Statement

Seasoned Software Engineer with over 4 years of experience in developing scalable, high-performance applications using Ruby on Rails, JavaScript, Python, and related technologies. Proficient in designing RESTful APIs and implementing Agile methodologies to deliver robust solutions. Demonstrated ability to lead cross-functional teams, optimize system performance, and contribute to mission-driven projects.

Technical Skills

- **Expert:** Ruby, Ruby on Rails, PostgreSQL, RESTful APIs, RSpec, Docker, Linux
 - **Proficient:** Python, Django, JavaScript (React.js, Next.js), Node.js, Git, CI/CD pipelines
 - **Familiar:** AWS, Google Cloud Platform, Azure, Redis, Sidekiq
 - **Tools & Methodologies:** Agile (Scrum), TDD/BDD, API design, System Scalability
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Professional Experience

Software Engineer | JijiHealth, Nairobi

August 2024 – Present

- Led the development of scalable Health Management Information Systems (HMIS) using Ruby on Rails and PostgreSQL, ensuring high availability and performance.
- Designed and maintained RESTful APIs for seamless integration with external healthcare systems, improving data accessibility by 30%.
- Implemented secure payment processing endpoints (Mpesa, Quikk) with robust callback handling, enhancing transaction reliability.
- Conducted code reviews and wrote RSpec tests to ensure code quality and maintainability.
- Collaborated with cross-functional teams in Agile sprints to deliver optimized, user-focused solutions.

Key Achievement: Enhanced HMIS platform scalability, enabling real-time data sharing across healthcare facilities, reducing latency by 25%.

Software Developer | Damu Sasa, Nairobi

January 2023 – December 2024

- Developed and maintained RESTful APIs using Ruby on Rails, ensuring seamless integration with frontend applications and third-party systems.
- Optimized cloud-based deployments (AWS, Azure) for the Blood Management Information System (BMIS), improving system uptime to 99.9%.
- Participated in Agile sprints, analyzing user stories and contributing to scalable system designs.

Key Achievement: Led BMIS revamp, integrating with The Nairobi Hospital's labware,

enabling secure and efficient data exchange.

Software Developer | SoftTec Innovation Africa, Nairobi

January 2021 – December 2022

- Built RESTful APIs with Ruby on Rails and integrated third-party services for efficient data management.
- Adopted Agile methodologies to enhance team collaboration and adapt to evolving project requirements.
- Reduced system issue resolution time by 50% through proactive troubleshooting and optimization.

Key Achievement: Designed scalable backend systems to support growing user bases, improving performance under high load.

Highlighted Projects

E-Learning Platform (2024)

- Developed a scalable e-learning platform using Ruby on Rails, Vue.js, and PostgreSQL to deliver interactive educational content.
- Designed RESTful APIs to support dynamic course management, user authentication, and progress tracking.
- Implemented RSpec tests for backend reliability and Vue.js components for a responsive, user-friendly interface.
- Optimized database queries to handle high user concurrency, improving platform performance by 20%.

Blood Management Information System (BMIS) (2023)

- Built a robust blood management system using Ruby on Rails, Vue.js, and PostgreSQL to streamline healthcare data workflows.
Developed secure RESTful APIs for real-time integration with hospital labware, enabling efficient blood inventory tracking and data exchange.
- Utilized RSpec for test-driven development to ensure code quality and Vue.js for interactive dashboards displaying real-time metrics.
- Enhanced system scalability through Dockerized deployments, supporting high availability across multiple facilities.

CodeOverflow (2023)

- Developed a Stack Overflow-inspired platform using Ruby on Rails, React, and PostgreSQL, enabling developers to share expertise.
- Implemented RESTful APIs and RSpec tests for robust backend functionality.

GitHub: <https://github.com/JohnOkari/codeoverflow>

Proctor (2020)

- Built a healthcare platform connecting patients and doctors using Laravel and JavaScript.
- Designed secure APIs for real-time data exchange and user authentication.

GitHub: <https://github.com/JohnOkari/Online-doctor-patient-system>

Education

Moringa School, Nairobi

November 2021 – May 2022

Software Engineering – Full-Stack Developer

The Technical University of Kenya, Nairobi

September 2016 – March 2021

Bachelor of Technology in Information Technology

Personal Skills

- **Fast Learner:** Quickly adapts to new technologies and frameworks, including DevOps tools and cloud platforms.
 - **Strong Communicator:** Effectively collaborates with cross-functional teams to align on project goals.
 - **Critical Thinker:** Solves complex problems with optimized, scalable solutions.
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Interests

- **Technology:** Passionate about exploring advancements in cloud computing and scalable system design.
 - **Photography:** Enjoys capturing impactful moments through creative storytelling.
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References

Mr. Aaron Ogunde

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Mr. Bernard Onyango

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