Victor Mwenda - Senior Software Engineer

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WORK EXPERIENCE

AfriScout   **Nairobi, Kenya**
Senior Software Engineer   *Feb 2023 - Present*

- Led end-to-end development and system architecture design for AfriScout Regen MVP, a groundbreaking range-land monitoring and carbon credit platform, leveraging robust software engineering practices and orchestrating collaboration between remote teams to deliver key milestones on schedule.
- Reduced app crash rate by 75% in production environments through systematic identification and resolution of critical bugs in mobile apps, resulting in a 40% improvement in user retention and 95% positive user feedback across mobile and dashboard platforms.
- Developed and maintained critical features using Laravel PHP and Livewire, creating robust APIs and implementing API integrations that improved system interoperability and data exchange efficiency. Actively participated in code reviews to ensure code quality and maintainability.
- Developed and deployed RESTful APIs using Java Spring, enhancing system interoperability and reducing integration time by 40%, which accelerated project delivery cycles.
- Maintained and optimized server technologies including Apache, Nginx, and PHP-FPM, ensuring high availability and optimal performance of production environments.

CarePay Ltd   **Nairobi, Kenya**
Software Engineer   *Aug 2022 - Jan 2023*

- Architected and implemented RESTful APIs using Java Spring, powering critical insurance features, performing robust data fetching techniques and API integrations, reducing integration time for new insurance providers and enabling seamless onboarding of new providers.
- Collaborated with product managers and coordinated efforts across front-end, DevOps, and business development teams to launch CarePay's MVP, meeting software requirements and leading to expansion into new markets in the UAE.
- Led system maintenance and optimization initiatives for CarePay's core healthcare platform, including database schema management and query optimization using Spring Data, Hibernate, ensuring 99.9% uptime while reducing customer support response time.

SaltPay   **Porto, Portugal**
Android Terminals Engineer   *Dec 2021 - Jul 2022*

- Engineered robust Android payment applications using Kotlin for European merchants, reducing transaction processing time by 40% and maintaining 99.9% successful transaction rate.
- Developed and optimized Android terminal UI/UX using Kotlin and Jetpack Compose, resulting in 30% faster merchant onboarding and 90% positive user feedback.

Safaricom PLC   **Nairobi, Kenya**
Software Engineer - Integrations   *Mar 2021 - Nov 2021*

- Architected and deployed high-performance USSD platform (*544#) handling 20M+ daily transactions for mobile data purchases, achieving 99.99% uptime with sub-second response times using Java Spring & MySQL.
- Engineered dynamic pricing algorithm for personalized mobile data and voice offers, driving 11% revenue growth and increasing offer acceptance rate by 35% across 20M+ subscriber base.
- Designed and implemented robust mobile apps and RESTful APIs with Java Spring for integration with M-Kopa and ShowMax, enabling seamless third-party service purchases that generated new revenue streams and expanded the customer base by 25%.

SmartCodes   **Dar es Salaam, Tanzania**
Technical Lead   *Nov 2019 - Feb 2021*

- Led a cross-functional team of 10 developers to deliver 3 major products on time and under budget, resulting in 30% increase in company revenue.

- Spearheaded complete modernization of the flagship M-paper platform, architecting a migration from legacy PHP to Laravel 7 that involved system consolidation and modularization, reducing system downtime by 80% and enabling integration with partner platforms including Ezy-Gazeti.
- Led end-to-end development of SuperStore, a multi-vendor FMCG e-commerce platform built with Laravel/Vue.js, and Flutter, successfully.
- Architected Tanzania's first local real-time advertising platform (Kwanza) using React, Java Spring and Laravel APIs, generating new revenue channels through programmatic advertising.
- Orchestrated agile development across 3 major products with 10-person cross-functional team, delivering 95% of sprints on time while maintaining 90% stakeholder satisfaction rate.

PixelEdge   **Nairobi, Kenya**
Software Engineer   *Nov 2019 - Aug 2020*
- Implemented a multi-tenant administration dashboard using React and Laravel, building responsive web applications and focusing on dashboard building, that streamlined workflows for 15+ administrative roles, resulting in a measurable increase in productivity and a reduction in task completion time by 20%.
- Engineered custom API integrations for third-party clients using Laravel, streamlining data exchange and enhancing system interoperability.
- Implemented comprehensive testing infrastructure with PHP unit tests and automated Postman API tests, ensuring reliable system performance and code quality.

MobiGlobe   **Nairobi, Kenya**
Software Engineer   *Jan 2019 - Oct 2019*
- Spearheaded the development of Kenya's first real-time bidding platform (MediaPal), processing 100K+ daily ad requests and winning the 'Most Disruptive Marketing Innovation' award. This involved designing and implementing a scalable and reliable backend system capable of handling high volumes of transactions.
- Architected scalable microservices infrastructure using Java Spring/Laravel backend and Vue.js frontend, implementing CI/CD pipelines and orchestrating deployment with Docker/Kubernetes to achieve 99.9% platform availability and successful software implementation.
- Engineered demand-side advertising platform using Laravel, implementing real-time bidding protocols that increased ad placement efficiency by 40%.

Nano Digital   **Nairobi, Kenya**
Software Engineer   *Oct 2018 - Dec 2018*
- Developed and maintained a high-performance USSD application for 2000+ subscribers, implementing secure coding practices and building a robust Java back-end to ensure system stability and scalability. This involved designing and implementing a system architecture that could handle a large volume of transactions efficiently and securely.
- Implemented root cause analysis to identify and resolve performance bottlenecks in the Yii PHP-based web application, improving user experience and navigation for 2000+ users migrating from the USSD platform.
- Developed and implemented API integrations with third-party APIs, most notably integrating with M-Pesa payment APIs for fast and secure payments.

EDUCATION

Kenyatta University   **Nairobi, Kenya**
BSC Computer Science - Computer Science Fundamentals: OOP, Data Structures, Design Patterns   *Graduation Date: Jul 2022*

LEADERSHIP EXPERIENCE

KamiLimu   **Nairobi, Kenya**
Professional Mentor   *Nov 2019 - Aug 2020*
- Mentor-ship program for Students in Science, Technology, Engineering and Mathematics.

SKILLS & INTERESTS

Skills: Java, Kotlin, Android Development, PHP (Laravel), AWS, Container Platforms (Kubernetes/Docker), Web Development, JavaScript/TypeScript(React, Next), Spring Boot, Microservices, MySQL/SQL, API Development