

PETER KIPROP

Software Engineer



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Professional Summary

Versatile and results-driven Software Engineer with 4+ years of hands-on experience in designing, developing, and supporting critical financial systems, including core banking, payment channels, and compliance tools. Proven ability in backend development, system integration, cloud infrastructure, and application support. Successfully led high-impact projects such as government bond trading platforms, multi-tenant core banking systems, and a provably fair gaming engine.

Strong in incident management, application monitoring, and supporting mission-critical environments. Skilled in collaborating across teams, vendors, and operations units to ensure secure, performant, and scalable systems.

Core Technologies & Tools

Backend: Java (Spring Boot), Node.js, PHP, Python, C#, micro services architecture, event-driven systems(Kafka , RabbitMQ)

Databases: PostgreSQL, MySQL

DevOps & Cloud: Docker, AWS, GCP, Azure, cPanel, Scaleway

Other Tools: GitHub, Bitbucket, Jira, Slack, Kill Bill, Pentaho

Protocols & Integration: REST APIs, OAuth2, Mpesa, Treasury & AML integrations

Monitoring & Performance: Server tuning, query optimization, system alerting

EXPERIENCE

Software Developer Intern

HR Digital Consulting Ltd — Nairobi, Kenya

October 2021 – December 2021

1. Designed and developed a full-stack Jobsearch, E-Recruitment, and E-Mentorship platform using Laravel and AngularJS, delivering a smooth and responsive user experience.
2. Participated in the deployment and hosting of web applications on AWS, Scaleway, and cPanel, gaining hands-on experience in cloud infrastructure and system availability.
3. Supported data entry, verification, and quality assurance for a comprehensive HR system, ensuring data integrity and adherence to compliance standards.
4. Assisted in evaluating and enhancing system performance, identifying bottlenecks and contributing to application optimization efforts.
5. Collaborated with senior developers and HR system stakeholders to troubleshoot issues and support platform improvements.

Techsavanna Company Ltd — Nairobi, Kenya

Software Developer - **March 2022 – March 2023**

Lead software engineer - **March 2023 – March 2024**

1. Ensured high system availability and uptime by migrating core applications to AWS cloud, reducing hosting costs by 25% and improving application availability by 15%.
2. Monitored performance of deployed applications using enhanced server monitoring tools with real-time alert systems, ensuring rapid incident response and resolution.
3. Led application troubleshooting and incident management, resolving issues across financial, gaming, and HR platforms, directly supporting business continuity.
4. Co-developed financial and investment systems for SMEs and banks using Spring Boot, Angular, and Pentaho—managing client data, loan tracking, credit workflows, repayments, and treasury bond trading.
5. Provided Level 2 technical support and guided junior engineers in diagnosing complex production issues across integrated services.
6. Orchestrated major change deployments including containerization with Docker and Kubernetes, multi-tenant upgrades (Symfony), and legacy system re-engineering, minimizing disruption to business operations.
7. Integrated external systems (e.g., M-Pesa, Kill Bill billing, Bulk SMS, Facebook) and ensured seamless data flow, strengthening CRM, payment, and communication platforms.
8. Led cross-functional and DevOps teams, applying agile and ITIL-aligned methodologies for project execution, environment setup, and CI/CD pipeline management.
9. Built responsive, reusable frontend components with Angular/React, following UX/UI best practices.
10. Integrated systems with mobile money, KYC/AML, credit scoring, and regulatory APIs.
11. Engineered financial APIs compliant with Open Banking & ISO 20022 standards.
12. Enhanced observability with Prometheus, Grafana, ELK, and OpenTelemetry for performance and reliability.
13. Conducted performance optimization through SQL/database tuning and API enhancements, increasing response speed across high-volume systems.
14. Managed cloud infrastructure across AWS, GCP, Azure, and Scaleway, overseeing backups, access controls, disaster recovery planning, and cost-performance optimization.

15. Trained and mentored interns, fostering knowledge-sharing and effective collaboration between development and business support teams.
16. Utilized Jira as ticketing systems to track, manage, and resolve tasks while monitoring and addressing client-raised tickets.

Integrations Engineer

Africa Climate Summit — Nairobi, Kenya

July 2023 – September 2023

1. Developed scalable and high-performance RESTful APIs using Laravel, PHP, and C# to support key modules within the Africa Climate Summit platform.
2. Contributed to the system design and architecture of the Summit's AI-Driven Data Management Platform, collaborating closely with system architects and data engineers.
3. Built and implemented an OAuth2-based authentication module, ensuring secure access control and compliance with modern security standards.
4. Supported integration of multiple subsystems, enabling seamless communication and data flow across climate data, reporting, and visualization tools.
5. Assisted with the technical implementation of value-added project initiatives, contributing to enhanced system interoperability and performance.
6. Utilized CRM and Jira as ticketing systems to track, manage, and resolve tasks while monitoring and addressing client-raised tickets.

Software Engineer

April 2024 - July 2025

Resilient Business Systems East Africa — Nairobi, Kenya

1. Leading development and support of core banking modules, with emphasis on check management, treasury workflows, and SACCO multi-tenant deployments.
2. Integrated AML monitoring tools and treasury settlement systems into the core platform to enhance compliance with financial regulations.
3. Overseeing system stability, high availability, and uptime by driving performance improvements, database optimization, and application monitoring strategies.
4. Coordinating with cross-functional teams and SACCO partners to roll out scalable enhancements and resolve mission-critical system issues.

5. Developed secure and reliable backend services powering Internet Banking, Mobile Banking, and ATM channels using Java, Spring Boot, and PostgreSQL.
6. Optimized system performance through resource tuning, query profiling, and workload balancing, supporting high transaction throughput.
7. Supported system integration with third-party services and tools to extend functionality and meet business requirements.
8. Built and maintained frontend components using AngularJS, tailored for user-friendly mobile and internet banking experiences.
9. Designed and implemented secure RESTful APIs to support omnichannel banking platforms including mobile, web, and ATM.
10. Delivered a Check Management module as part of the core banking roadmap, improving branch and teller operations.
11. Participated in regular patch deployments, feature rollouts, and incident resolutions to support business continuity and regulatory compliance.
12. Utilized CRM and Jira as ticketing systems to track, manage, and resolve tasks while monitoring and addressing client-raised tickets.

Education.

- ✓ **Bachelor's Degree in Computer Science.**
2017- 2021
Laikipia University, Kenya
- ✓ **Kenya Certificate Of Secondary Education**
2012 – 2016
Kemeloi High School, Kenya

Certifications.

- Aws Solutions architect(Professional) - AWS
- Cisco Certification – Laikipia University
- Huawei Certification – Laikipia University
- Robotics Certification – Laikipia University

Referees

Available Upon Request