

Njeru Mwenda Peter

Senior Backend Engineer

SUMMARY

- Designed and scaled high-performance backend systems handling up to 500 TPS, improving reliability and throughput in banking and real-time platforms.
- Reduced account opening turnaround time by 80% through BPM workflow optimization.
- Led migration of legacy systems to microservices, enhancing scalability and maintainability.
- Improved observability using ELK, Grafana, and Micrometer, and mentored engineers to boost team productivity and code quality.

TECHNICAL SKILLS

Main Technical Skills	Java (8 yr.), Spring Boot (4 yr.), microservices (3 yr.), Kafka (2 yr.), RabbitMQ (2 yr.)
Programming Languages	Go (1 yr.), Java (8 yr.), Python (3 yr.)
JavaScript Frameworks	AngularJS (4 yr.)
Java Frameworks	Hibernate (4 yr.), Spring Boot (4 yr.)
Data Analysis and Visualization Technologies	Kibana
Databases & Management Systems / ORM	Elasticsearch, Hibernate (4 yr.), MongoDB (4 yr.), Oracle Database (4 yr.), PL/SQL (4 yr.), PostgreSQL (4 yr.), Redis (2 yr.)
Cloud Platforms, Services & Computing	AWS (2 yr.)
Azure Cloud Services	Azure AD hybrid identity
QA, Test Automation, Security	Apache Maven (4 yr.), JUnit (4 yr.), Mockito (4 yr.)
Deployment, CI/CD & Administration	CI/CD (3 yr.), GitLab CI (2 yr.), Jenkins (4 yr.)
Virtualization, Containers and Orchestration	Docker (3 yr.), Kubernetes (3 yr.)
Version Control	Git (4 yr.)
Message/Queue/Task Brokers	Kafka (2 yr.), RabbitMQ (2 yr.)
Operating Systems	Linux (1 yr.)

Logging and Monitoring	Logstash, Prometheus (2 yr.)
Methodologies, Paradigms and Patterns	microservices (3 yr.)
Platforms	Red Hat OpenShift Container Platform (2 yr.)
Scripting and Command Line Interfaces	Shell Scripts (2 yr.)
Other Technical Skills	Micrometer (2 yr.)

WORK EXPERIENCE

Senior Software Developer - Sportserve (High-Traffic Gaming Backend Systems)

Duration: March 2022 – Present

Summary:

- Design and enhancement of backend systems for a high-traffic gaming platform supporting real-time operations and revenue growth
- The project involves integrating external gaming providers and improving system observability and performance

Responsibilities:

- Design and enhance backend systems for real-time gaming operations.
- Lead integrations with external gaming providers to improve onboarding speed and platform capabilities.
- Drive improvements in system observability and performance using ELK, Grafana, and Micrometer.
- Mentor junior engineers and lead knowledge-sharing sessions to improve team productivity and code quality.

Technologies: Java 8-21, Spring Boot, AngularJS, Vaadin, Go, Jenkins, RabbitMQ, Oracle, MongoDB, H2, Redis, Kafka, ELK, Grafana, Micrometer, Jira, Bitbucket, GitLab, AppDynamics, OCI

Application Developer - Kenya Commercial Bank (KCB) (Banking Backend Systems and BPM Workflows)

Duration: September 2019 – December 2021

Summary:

- Development and optimization of banking backend systems including BPM workflows, bulk payment systems, and API integrations for core banking, card, and loan platforms
- The project also involved re-architecting legacy services into containerized microservices and implementing event-driven integrations

Responsibilities:

- Designed and implemented BPM workflows to reduce account opening turnaround time by 80%.
- Built and optimized a high-throughput bulk payment system handling 500 TPS ensuring reliability and performance.



- Developed and integrated APIs across core banking, card systems, and loan platforms.
- Re-architected legacy IBM Integration Bus services into containerized microservices deployed on OpenShift.
- Implemented event-driven integrations using ActiveMQ and enterprise messaging systems.
- Developed T24 modules and handled complex host-to-host banking integrations.

Technologies: IIB, T24, Tranzware, Java, Python, Scripting, Spring Boot, Azure Cloud, OpenShift, ActiveMQ, Oracle, MongoDB

Application Developer - Tech Savannah Ltd (Contracted Development at Kenya Commercial Bank (KCB))

Duration: September 2018 – September 2019

Summary: Contracted role at Kenya Commercial Bank supporting application development tasks related to banking systems.

Software Developer - Alan Dick & Co East Africa Ltd (LTE Data Management and IoT Portals)

Duration: December 2016 – August 2018

Summary:

- Development of LTE data management portal for data sharing between Safaricom and Alan Dick East Africa, and implementation of NBIoT portal managing millions of IoT sensors for Smart Fridges, Antennae monitoring, and Smart Metering
- Also involved in developing a BTS site monitoring solution using IoT

Responsibilities:

- Participated in development of LTE data management portal.
- Contributed to implementation of NBIoT portal managing millions of IoT sensors.
- Involved in development of BTS site monitoring solution using IoT.

Technologies: Android, Python, MicroPython, Java, WSO2, AngularJS, Jenkins, PostgreSQL

Intern - Software Developer - Tawi Commercial Services Ltd (SMS and Airtime Gateways Development)

Duration: April 2016 – August 2016

Summary: Development of SMS and Airtime Gateways as part of a team, supporting telecommunications services.

Responsibilities:

- Worked in a team to develop SMS and Airtime Gateways.

Technologies: Java, AngularJS, PostgreSQL, Linux

EDUCATION

- **MSc. Software Engineering**
Jomo Kenyatta University of Agriculture and Technology
August 2017 – Present
- **BSc. Computer Science, Second Class Upper Division**
Maasai Mara University
May 2012 – December 2016



CERTIFICATION

- **Zscaler Zero Trust Associate**
2025
- **Azure Fundamentals - H410-2331**
Pearson VUE
2020
- **Andela Boot Camp**
Two Weeks (Skills: Python, Flask)
August 2016

