

MARK KIPCHUMBA

SOFTWARE ENGINEER

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OBJECTIVE

Results-driven Software Engineer with a strong foundation in backend development, mobile application design, and full-stack engineering. Proven ability to develop user-centered solutions that streamline business operations and improve data management. Skilled in Java, Python, Flutter, and modern development frameworks with hands-on experience in production environments. Committed to continuous learning and delivering high-quality, scalable software solutions that drive business value.

EDUCATION

STRATHMORE UNIVERSITY | NAIROBI | Bachelor's Degree in Informatics and Computer Science

June 2022 – June 2026

Relevant Coursework: Data Structures and Algorithms, Artificial Intelligence, Database Management, Advanced Database Systems, Software Engineering, Cybersecurity, Human-Computer Interaction, Mobile Application Development

STRATHMORE UNIVERSITY | NAIROBI | Certificate in Data Analytics and Visualization

January 2026 – March 2026

Relevant Coursework: Data Analytics Fundamentals, Data Cleaning and Preparation, Statistical Analysis, Data Visualization, Spreadsheet Analysis (Excel), SQL for Data Analysis, Python for Data Analysis, Business Intelligence Tools (Power BI / Tableau), and Data Interpretation & Reporting.

EXPERIENCE

SOFTWARE ENGINEER INTERN | ECLECTICS INTL.

Dates [01/05/2026 – Present]

Contributing to a full-stack escrow platform by implementing role-based seller onboarding with OTP verification and admin approval, admin-facing APIs for seller approval and employee provisioning, and database-backed user-status lifecycle management. Hardened payment callback idempotency, refined transaction API responses, and modernized Android authentication flows using Jetpack Compose, validating changes through Maven and Gradle/Kotlin build checks.

BACKEND ENGINEER — SERVICE MONITORING INTERN | INDRA GROUP

Dates [01/01/2026 – 30/04/2026]

Designed and implemented a backend observability platform for monitoring service health, errors, and alert lifecycles across containerized services. Built a Spring Boot monitoring backend with actuator metrics and webhook alert ingestion, a PostgreSQL monitoring data model, and a deterministic Python probe/data writer, integrating Prometheus, Alertmanager, and Grafana for end-to-end alerting in Docker Compose.

STUDENT ATTACHEE | (BACKEND ENGINEERING) | INDRA LIMITED

Dates [07/01/2025 – 30/03/2025]

Developed a mobile application using Flutter and Spring Boot to streamline vendor and field surveyor collaboration, enabling real-time communication and task management across distributed teams. Implemented backend services and database optimization that improved operational efficiency and reduced survey turnaround time, while collaborating with cross-functional teams to identify, analyze, and implement system modifications based on client requirements. Participated in code reviews, debugging sessions, and deployment processes, gaining hands-on experience in professional software development workflows.

SKILLS & ABILITIES

Programming Languages: Java, Python, HTML, CSS, JavaScript

Frameworks & Tools: Spring Boot, Laravel, Flutter

Mobile Development: Android, iOS (Flutter)

Database Management: Oracle, MySQL

Concepts & Methodologies: Machine Learning, Artificial Intelligence, Object-Oriented Programming, Agile Development

Version Control: Git, GitHub

CERTIFICATIONS

CISCO IT ESSENTIALS

https://www.credly.com/badges/12ed3278-e761-4183-8ddc-dafecc146c48/public_url

CCNA: INTRODUCTION TO NETWORKS

https://www.credly.com/badges/8fd07c1f-48d3-4937-bbdc-2dc2a01062c2/public_url

CCNA: SWITCHING, ROUTING AND WIRELESS ESSENTIALS (2023)

https://www.credly.com/badges/91e69e66-850c-497f-99de-0ed24d851b1a/linked_in_profile

OPSWAT: INTRODUCTION TO CIP

<https://learn.opswatacademy.com/certificate/snlQ-KZ6rA>

VOLUNTEER EXPERIENCE

COMMUNITY SERVICE VOLUNTEER | Carmel Catholic School

Dates [14/01/2024 – 14/03/2024]

Contributed to school operations across multiple roles including farm management, food services coordination, and computer lab assistance. Demonstrated adaptability, reliability, and commitment to community development while managing diverse responsibilities in a collaborative environment.

STRENGTHS

Effective Communication | Problem-Solving | Teamwork & Collaboration | Adaptability | Critical Thinking | Creative Problem-Solving | Time Management | Self-Motivation & Initiative | Quick Learner | User-Centered Design Thinking | Leadership

PROJECTS

[\(GitHub\)](#)

ESCROWX | Full-Stack Escrow Platform

EscrowX is a modular-monolith escrow platform with a Spring Boot backend and Android mobile app for secure buyer-seller transactions. Implemented auth flows (register, confirm, login, reset password), user management (roles, status, profile), and escrow transaction lifecycle APIs, backed by PostgreSQL with Flyway migrations and OpenAPI documentation.

SMART PRENATAL | Mobile Application

Developed a mobile application using Flutter, Java Spring Boot, and Python with machine learning to predict preterm birth risk. The app features early-warning predictions with 92% accuracy and 87% recall, supporting timely interventions and demonstrating skills in mobile development, AI integration, and healthcare-focused problem solving.