

JACOB WECHULI

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SOFTWARE ENGINEER

Experience

KCB Group PLC

Nairobi, KE

Software Developer Intern — Application Development (Integrations)

May 2024 – Aug 2024

- Developed Java Spring Boot microservices supporting enterprise banking platforms including KCB Bank, KCB M-PESA, and KCB Vooma.
- Designed and maintained RESTful APIs and participated in SOAP service integrations for internal banking systems.
- Integrated third-party financial services including Safaricom Daraja APIs for mobile money workflows.
- Deployed and managed containerised services using Docker and Kubernetes in staging environments.
- Improved application observability through structured logging with SLF4J.
- Worked within Agile teams alongside senior engineers throughout the full software development lifecycle.

Java • Spring Boot • PostgreSQL • Docker • Kubernetes • REST • SOAP • Daraja API

PropelFin

Nairobi, KE

Junior Application Developer

Mar 2025 – Aug 2025

- Developed Flutter-based fintech applications including digital payment and loan management solutions.
- Built reusable mobile components shared across multiple financial applications.
- Integrated backend services and payment workflows into production mobile applications.
- Collaborated with designers and developers to deliver responsive, user-friendly interfaces.

Flutter • Dart • Firebase • REST APIs

Kenyatta University

Nairobi, KE

Engineering Intern — Network Infrastructure

May 2022 – Aug 2022

- Supported maintenance of the university's campus-wide network infrastructure across fiber and Ethernet networks.
- Diagnosed and resolved connectivity issues; configured wireless access points for university events and conferences.
- Supported KUTV live broadcasts by maintaining reliable network connectivity for streaming operations.
- Assisted engineers in monitoring network performance and reducing service downtime.

Projects

Goldplus Advisory Mobile Application (React Native, Firebase, Anthropic AI)

- Designed and developed a production mobile application for a Nairobi-based business consulting firm serving SMEs and entrepreneurs.
- Built AI business advisor chatbot and WhatsApp financial assistant using Anthropic AI for personalised financial guidance.
- Implemented receipt OCR and automatic M-Pesa SMS transaction parsing for hands-free expense logging.
- Architected secure cloud authentication, budget tracking, and financial statement generation features.

Telemedicine Appointment System (Spring Boot, PostgreSQL, React, Redis, Docker)

- Developed a secure healthcare platform supporting doctor-patient appointment scheduling with role-based access control.
- Implemented JWT authentication, Redis token caching, and Docker deployment for scalable, secure session management.
- Integrated Twilio SMS and email notifications for real-time appointment reminders and confirmations.

Agri-Fintech Loan Management Platform (Spring Boot, PostgreSQL, Next.js)

- Built a digital lending platform supporting loan applications, subsidy management, and repayments for smallholder farmers.
- Designed secure RESTful APIs with Spring Boot and Spring Security (JWT) backed by PostgreSQL with Flyway migrations.
- Developed a responsive Next.js frontend with real-time form validation and role-based dashboards.

Skills

Java • JavaScript / TypeScript • Python • Go • Spring Boot • Spring Security • REST APIs • SOAP APIs • Microservices • Flutter • React Native • React • Next.js • Angular • PostgreSQL • Firebase • Docker • Kubernetes • AWS • CI/CD • Anthropic AI • Daraja API

Education

Jomo Kenyatta University of Agriculture and Technology
BSc Telecommunications and Information Engineering

Nairobi, KE
2019 – 2025

Certifications

- AWS Certified Cloud Practitioner — Amazon Web Services · 2025
- Scalable Microservices for Developers — Google Cloud
- Cloud Computing: Core Infrastructure — IBM
- Full Stack Software Development — Coursera