

Cavin Larry

Software Engineer

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SUMMARY

Software Engineer with a strong Java and Spring Boot foundation and a track record of building, testing, and deploying production-grade applications. I have implemented ACID-compliant financial transaction services, RESTful APIs with Spring Security and multi-layer access control, payment integrations with live financial APIs (M-Pesa Daraja, CB Konnect), and CI/CD pipelines using GitHub Actions and Docker. I write clean, maintainable, and well-documented code, apply secure coding principles, and use Git and pull requests as part of my standard development workflow. Complementary React and TypeScript experience enables effective collaboration across engineering teams. Eager to contribute to digital transformation alongside experienced engineers and teams.

TECHNICAL SKILLS

Programming Languages: Java, Kotlin, TypeScript, JavaScript, Python, SQL, Bash

Backend & APIs: Spring Boot, Spring Security, Spring Data JPA, Spring Cloud, Spring AI, Ktor, REST API design and consumption, JWT authentication, role-based access control, secure coding principles, API integration

Frontend: React.js, TypeScript, Vite, Tailwind CSS, React Query, React Router, responsive web applications, reusable component development

Databases: PostgreSQL, MySQL, MongoDB – schema design, Flyway migrations, query optimisation, relational data modelling

Testing: Testcontainers (integration testing against live PostgreSQL), unit testing, test-driven development, JUnit

DevOps & CI/CD: Docker, Docker Compose, GitHub Actions (CI/CD pipelines), GHCR, Linux (Ubuntu, Fedora)

Tools & Version Control: Git, GitHub, GitLab, BitBucket, pull requests, code review workflows, Swagger/OpenAPI, Postman, Azure

Methodologies: Software development lifecycle (SDLC), Agile principles, cross-functional collaboration, technical documentation

Projects

Selected projects demonstrating backend depth, API development, testing, and CI/CD discipline:

Gatelog – Visitor Management System – github.com/devcavin/gatelog

Kotlin, Spring Boot, Spring Security, PostgreSQL, Flyway, GitHub Actions, Testcontainers, Docker

Production-style REST API backend with two-layer RBAC (Spring Security @PreAuthorize at the HTTP layer, service-layer business rule enforcement), JWT with refresh token rotation, and Flyway-managed migrations consumed by a React and TypeScript SPA. CI/CD via GitHub Actions runs Testcontainers integration tests against a live PostgreSQL instance on every pull request, then builds and pushes a multi-stage Docker image to GHCR, Render and Vercel. Clean code principles across controller, service, and repository layers with documented architecture decisions.

PesaCore – Core Banking Service – github.com/devcavin/pesa-core

Kotlin, Spring Boot, Spring Data JPA, PostgreSQL, Docker

ACID-compliant financial transaction backend with double-entry ledger accounting for deposits, withdrawals, and P2P transfers. A deliberate no-rollback audit policy persists failed transactions to the audit trail for financial reconciliation and security review. Centralized exception handler produces consistent JSON error responses across a clean controller, service, and repository layer separation.

Kollect – Merchant Payment Dashboard – github.com/devcavin/kollect

Kotlin, Spring Boot, M-Pesa Daraja API, CB Konnect (Credit Bank) API

Backend service integrating two live financial APIs – Credit Bank CB Konnect (Balance Inquiry, Account Statement, STK Push) and M-Pesa Daraja for mobile payment processing. Implements real authentication flows, structured error handling across third-party responses, and sandbox environment testing. Directly relevant to financial services API integration within an insurance and financial services environment.

SmartSeason – Field Monitoring Platform – github.com/devcavin/smartseason

Kotlin, Spring Boot, React, TypeScript, PostgreSQL, Tailwind CSS, React Query, Docker

Full-stack application demonstrating end-to-end SDLC delivery – Spring Boot REST API backend consumed by a React and TypeScript SPA. JWT authentication, two-role access model, and strict server-side state machine with lifecycle transition validation. Deployed on Render (backend) and Vercel (frontend) with Docker Compose locally, demonstrating cross-layer engineering and REST API consumption from a React frontend.

EXPERIENCE

Network Technician (Contract) | E-NetHub Connections – Meru, Kenya

Feb 2026 – July 2026 | Meru, Kenya

- Maintain and troubleshoot live network infrastructure serving thousands of subscribers; diagnose faults systematically and document resolution outcomes – applying the same root-cause analysis and defect resolution discipline central to software engineering support
- Monitor network performance using PRTG, identify system faults, and coordinate rapid resolution with clear communication across technical and non-technical stakeholders

Network Technician | WeConnect WiFi – Meru, Kenya

Sep 2025 – Dec 2025 | Meru, Kenya

- Deployed network infrastructure serving 500+ users across 75+ access points; managed technical delivery end-to-end from installation through testing and customer sign-off

Key Accomplishments:

- Reduced troubleshooting time by 40% through systematic documentation of configurations and fault histories

ICT Support Technician Intern | Nairobi City Water & Sewerage Company – Nairobi

May 2024 – Aug 2024 | Nairobi, Kenya

- Delivered first-line technical support to 200+ staff on a Microsoft 365 and Active Directory enterprise environment; resolved hardware, software, and network faults within agreed service levels, logging incidents through ITSM helpdesk
- Produced technical process documentation and help desk SOPs, developing the written communication and documentation discipline central to software engineering practice

EDUCATION

Meru University of Science & Technology | Bachelor of Science in Information Technology

Sep 2021 – Oct 2025 | Meru, Kenya

Relevant Coursework: Software Engineering, Algorithms & Data Structures, Database Management, Distributed Systems, OOP, Cloud Computing

Power Learn Project Academy | Software Development Bootcamp

May 2024 – Dec 2024 | Nairobi, Kenya

Volunteer Experience

Postman Student Leader | Postman Student Program – Kenya

Mar 2024 – Oct 2025

- Designed and delivered 20+ technical workshops on REST API design, testing, and integration to 300+ student developers across Kenya; built training materials covering HTTP, authentication flows, and error handling

References

Available upon request