

TITUS NJUGUNA NJONJO

Software Engineer [**Back- end Engineer**]

[GitHub](#) | [LinkedIn](#) | [My Blog](#)

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Location: Nairobi, Kenya

PROFILE SUMMARY

Software Engineer with 5+ years architecting scalable fintech solutions serving 10,000+ users across Kenya. Led cross-functional teams, improved system performance by 80%, and built payment platforms processing \$100K+ in transactions. Expert in Python ecosystem, cloud infrastructure, and African payment integrations (M-Pesa, Banking APIs[Jenga API, MoMo Pay]). Proven track record of mentoring engineers and delivering high-impact financial technology solutions.

TECHNICAL EXPERTISE

- **Backend Development:** Python, Data Processing(pandas etc), Django, FastAPI, REST APIs, GraphQL, Celery, Kafka, RabbitMQ, Microservices, GoLang(Learning)
- **Cloud & DevOps:** Github Actions, AWS, Docker, CI/CD Pipelines, Nginx, Linux Serv
- **Payment Systems:** M-Pesa API, Banking APIs, USSD Integration, SMS Gateways, PCI Compliance, AML
- **AI Development Frameworks :** LangChain, Langgraph, Llama
- **Frontend Development:** Vue.js, JavaScript ES6+, TS, HTML5, CSS3,
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis, Database Optimization, Query Tuning
- **Tools & Practices:** Git, Postman, Jira, Agile, TDD, Slack, Code Rabbit, Claude, Copilot Code Reviews, Technical ,Documentation

Work Experience

Senior Software Engineer | Naivera Ltd. | Jun 2023 - Present

Leading fintech development team building scalable financial platforms

- Team Leadership: Mentor 3 engineers and interns, conduct comprehensive code reviews, and drive technical architecture decisions resulting in 40% faster deployment cycles
- Crowdfunding Platform: Architected full-stack crowdfunding system serving 2,000+ daily users, processing \$100K+ in campaign pledges with 99.9% uptime
- Performance Optimization: Achieved 50% improvement in API response times through database indexing, caching strategies, and query optimization
- Payment Integration: Implemented M-Pesa and banking APIs enabling seamless transactions with 99.5% success rate, expanding user access by 40%
- Documentation Excellence: Built comprehensive API documentation using Postman, reducing new developer onboarding time from 2 weeks to 3 days
- System Architecture: Designed PCI compliance and financial regulatory standards

Software Engineer | Naivera Inc. | Jun 2022 - Jun 2023

Backend-focused development for high-traffic applications

- Real-time Systems: Built WebSocket-based chat functionality supporting 5,000+ concurrent users, increasing engagement by 25%
- Performance Tuning: Optimized database queries and implemented Redis caching, reducing API response times by 40%
- Team Development: Mentored 2 junior developers, enabling independent feature delivery within 5 months

Junior Software Engineer | Le'Doux Ltd | Sep 2020 - June 2022 | Remote

Building scalable backend systems and APIs

- Scalable Architecture: Developed backend systems handling 10,000+ concurrent users with minimal downtime
- API Development: Created robust RESTful APIs with full CRUD operations and JWT authentication
- Database Design: Optimized database schemas resulting in 35% faster query performance

System Administrator | LAIKAM Merchants Ltd | Sep 2019 - Aug 2020

Infrastructure management and server administration

- Infrastructure Management: Administered 10+ Linux servers with 99%+ uptime, managing network configurations
- Security Implementation: Enhanced server security protocols and performed proactive system monitoring
- Network Administration: Configured and maintained network systems supporting 100+ concurrent users

KEY PROJECTS

Crowdfunding Platform | Django RESTFUL, PostgreSQL, Redis, Kafka, RabbitMQ, MongoDB, Celery

Impact: 2,000+ daily users | \$200K+ transactions processed | 99.9% uptime

- Architected full-stack crowdfunding system with real-time campaign analytics and automated payment processing
- Integrated M-Pesa, banking APIs, and SMS notifications enabling seamless user experience
- Built automated KYC verification system reducing manual review time by 70%
- Implemented Redis caching and database optimization achieving sub-200ms response times
- Technologies: Django REST Framework, Vue.js, PostgreSQL, Redis, GCP Cloud Run, Docker

ISP Network Management Portal | FastAPI, Vue.js, RouterOS APIs | In Development

Scope: Real-time network monitoring for 1,000+ subscribers

- Developing comprehensive ISP management system with MikroTik RouterOS integration
- Built captive portal reducing customer onboarding time by 60%
- Implemented automated billing and subscriber management with M-Pesa integration
- Features: Real-time bandwidth monitoring, automated provisioning, payment processing
- Technologies: FastAPI, Vue.js, PostgreSQL, RouterOS API, Redis, Docker

E-commerce Platform | Django, Vue.js, PostgreSQL

Scale: 5,000+ products | 1,000+ daily transactions

- Developed full-stack e-commerce platform with advanced inventory management
- Integrated M-Pesa payments increasing conversion rate by 35%
- Built responsive design with advanced search, filtering, and recommendation engine
- Implemented order tracking, automated notifications, and customer analytics
- Technologies: Django, Vue.js, PostgreSQL, Redis, M-Pesa API, SMS Gateway

EDUCATION & CERTIFICATIONS

BSc.- Statistics & Computer Science
Technical University of Mombasa
Graduated December 2018

- GCP Professional Certification
- DevOps Engineer Professional Udemy
- Linux System Administration Certification

ADDITIONAL EXPERIENCE

Executive Financial Consultant | Sanlam Insurance | Jan 2019 - Aug 2019 | Part-time

- Client relationship management and financial advisory services
- Skills: Lead Generation, Sales Strategy, Customer Support, Financial Analysis

Computer Support Technician | Cybermonk Software Development | Aug 2018 - Dec 2018 | Internship

- Technical support, system troubleshooting, and desktop support
 - Skills: Hardware Troubleshooting, Software Installation, Customer Service
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ACHIEVEMENTS & RECOGNITION

- Performance Leader: Improved system efficiency by 80% through code optimization and architectural improvements
- Team Mentor: Successfully mentored 5+ junior developers to independent productivity
- Innovation Driver: Led adoption of modern development practices reducing bug reports by 60%
- Client Impact: Built solutions serving 10,000+ users across East Africa with 99.9% reliability
- Process Improvement: Reduced deployment time by 60% through CI/CD automation.