

Felix Kiprotich Cheruiyot

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PROFESSIONAL SUMMARY

Full-stack software engineer with 3+ years of hands-on experience building production-grade web applications across the entire stack. Specializes in React and Next.js for SSR/SSG-optimized frontends, and Python with Django REST Framework and Flask for scalable backend systems and RESTful APIs. Proven track record delivering freelance projects, agency client work, and internship contributions — with a strong emphasis on secure authentication, database design, and third-party API integration including M-Pesa (Daraja API).

TECHNICAL SKILLS

Frontend: JavaScript (ES6+), TypeScript, React.js, Next.js (App Router, SSR/SSG), Tailwind CSS, shadcn/ui

Backend: Python, Django REST Framework, Flask, SQLAlchemy, PostgreSQL, RESTful API Design

Auth & Security: JWT, OAuth 2.0, bcrypt, RBAC, Session Management, HTTPS/CORS Best Practices

DevOps & Cloud: AWS (EC2, S3, Lambda), Vercel, Docker, GitHub Actions, CI/CD Pipelines

Tooling & Workflow: Git, GitHub, Postman, Agile/Scrum, Environment Configuration

WORK EXPERIENCE

Frontend Software Developer Intern — BitNorm

July 2024 – February 2025

- Architected and shipped responsive, accessible dashboards using Next.js and shadcn/ui, leveraging SSR and dynamic routing to reduce page load times and improve Core Web Vitals scores.
- Integrated RESTful APIs to synchronize frontend dashboards with backend services, enabling real-time rendering of social interaction feeds, live market data, and user activity streams.
- Refactored authentication flows and optimized component rendering, eliminating UI bottlenecks and improving session security resulting in a measurably smoother user experience across devices.

Junior Backend Developer — Iansoft Technologies

May 2025 – March 2026

On-site · Agency environment

- Developed and maintained RESTful APIs using Django REST Framework, powering data exchange between frontend clients and backend services across multiple client projects.
- Designed and managed normalized relational database schemas using Django ORM and PostgreSQL, ensuring efficient querying, data integrity, and scalability across production environments.
- Integrated third-party services including payment gateways and SMS APIs (e.g. M-Pesa, Africa's Talking), enabling seamless transactional workflows for client-facing web applications.
- Collaborated with cross-functional on-site teams across the full backend lifecycle from requirements gathering and schema design through to deployment and post-launch support.

PROJECTS

HealthWise | Flask · PostgreSQL · React · SQLAlchemy · JWT · RBAC

Freelance project

- Architected a full-stack clinical management platform handling patient records, staff scheduling, appointment booking, and multi-stage treatment program tracking delivered end-to-end as a freelance engagement.
- Designed a normalized PostgreSQL schema using SQLAlchemy ORM, managing complex relational data across patients, staff profiles, appointments, and treatment programs optimized for query performance and maintainability.
- Implemented JWT authentication and role-based access control (RBAC), restricting data access by user role (admin, doctor, staff) and encrypting sensitive patient data to meet healthcare data handling standards.
- Delivered React-powered analytics and reporting dashboards surfacing real-time program enrollment trends, staff activity metrics, and patient progress data.

Tsavourite | React · Flask · PostgreSQL · JWT · Daraja API · M-Pesa STK Push

Personal project · Payment solution for Tsavo residents

- Engineered M-Pesa STK Push via Safaricom's Daraja API, automating payment initiation and callback handling on the Flask backend — reducing average bill payment processing time by 93% (from 15 minutes to under 1 minute).
- Secured all transaction flows with JWT authentication and webhook callback validation, preventing fraudulent and duplicate payment confirmations across all payment categories.
- Consolidated five payment types — rent, utility bills, water/electricity, and general merchant payments — into a unified platform with persistent transaction history, search, and downloadable receipts.
- Built a mobile-first React UI optimized for low-bandwidth conditions and entry-level Android devices, prioritizing accessibility for Tsavo's resident demographic.

EDUCATION

Bachelor of Science in Economics

2019 – 2025

Multimedia University of Kenya

Analytical and quantitative foundation directly applicable to data modeling, system design, and product thinking in software engineering.

Software Engineering Program

September 2023 – August 2024

Moringa School

Intensive, industry-aligned curriculum with project-based delivery across Python, Flask, Django, JavaScript, and React.

Artificial Intelligence Bootcamp

July 2025 – August 2025

Moringa School

Practical training in machine learning fundamentals, AI tooling, and applied AI development — extending backend expertise into intelligent systems.