

Nick Langat

Nairobi, Kenya · nicksonlangat95@gmail.com · 0713754946 · nicklangat.cc · <https://www.linkedin.com/in/nick-langat-26081119a/> · <https://github.com/nicksonlangat>

Self-motivated software engineer specializing in payment integrations and backend architecture, with extensive experience in maintaining cloud systems and leading LLM pipelines, RAG systems, and agentic AI projects. Passionate about system design, database optimization, performance profiling, and mentoring aspiring engineers.

EXPERIENCE

Engineering Team Lead

Jan 2026 - Present

Shukran

- Promoted to Head of Engineering to lead a cross-functional team of 7 across backend, frontend, mobile and design while remaining the primary backend engineer with approximately 80% hands-on contribution.
- Architect and build production backend systems using Python, Django, FastAPI and Go, owning system design, APIs, PostgreSQL, asynchronous processing, deployment and long-term reliability.
- Built and operated payment infrastructure across 7 payment rails, including Stripe, M-Pesa, Basis Theory, IntaSend and direct banking APIs across Kenya and Tanzania.
- Diagnosed and resolved a critical Stripe manual-capture failure, restoring 100% automated payment processing and eliminating a production revenue leak affecting hundreds of thousands of users.
- Restructured engineering into 2 specialised pods across Product Delivery and Platform Stability and introduced a formal PDLC and weekly sprint cadence, reducing delivery cycles from monthly to weekly.
- Designed and operated cloud infrastructure and developer tooling supporting customer-facing production workloads, with a focus on observability, reliability, automation and operational efficiency.
- Led architecture and implementation of AI-powered products using LLMs, RAG and autonomous agents, while mentoring engineers through technical design reviews, code reviews and pair programming.

Senior Backend Engineer

Oct 2023 - Jan 2026

Shukran

- Designed, built and operated core financial backend systems using Python, Django, Django REST Framework and PostgreSQL, owning architecture, implementation, deployment and production support.
- Architected payment infrastructure across 7 payment rails, including Stripe, M-Pesa, Basis Theory, IntaSend and direct banking APIs, implementing webhooks, idempotency, reconciliation and payment state management.
- Served as the primary backend engineer for the Tipping Core API and Donations Core API, building both platforms end-to-end and supporting production workloads.
- Designed asynchronous processing pipelines using Celery and Redis for payment capture, notifications, ledger operations and other long-running financial workflows.
- Built automated CI/CD pipelines and Docker-based development and deployment environments, enabling same-day releases and reducing manual deployment overhead.
- Optimised PostgreSQL queries, indexing strategies and background workloads to improve API performance and scalability across production services.
- Designed REST APIs supporting payments, customer onboarding, account management and internal operational tooling, collaborating with frontend and mobile engineers to ship customer-facing features.
- Implemented structured logging, monitoring and alerting across backend services, improving production visibility and accelerating diagnosis of application and payment failures.
- Contributed to the Finance API and Internal Admin Dashboard API, extending the platform's financial reporting and operational capabilities.

Full Stack Software Engineer

Mar 2021 - Dec 2023

REVEALL

- Designed and maintained scalable backend APIs using Django and Django REST Framework, serving thousands of active users.
- Refactored inefficient database queries, dramatically improving API response times by 80% (from 10s to 2s).
- Implemented automated testing frameworks and CI/CD pipelines, enabling faster and safer production deployments.
- Led technical architecture discussions and performed comprehensive code reviews in collaboration with product and design teams.
- Participated in technical hiring process by conducting interviews and evaluating engineering candidates.

Software Engineer

May 2018 - Feb 2021

Weza Prosoft

- Architected and deployed scalable backend systems using Django and PostgreSQL for large-scale behavioral research platforms.
- Optimized API endpoints and database queries, reducing response times by 30%.
- Containerized services with Docker and automated deployments using CI/CD pipelines.
- Configured NGINX load balancing solutions, improving platform availability by 25%.
- Integrated third-party analytics tools to support large-scale behavioral data analysis and research workflows.
- Mentored junior engineers and established improved internal engineering standards and practices.

SKILLS

Programming Languages Python, Golang, TypeScript

Backend Frameworks Django, Django REST Framework, FastAPI, Flask

Databases PostgreSQL, Redis, MySQL, MongoDB

Cloud & DevOps AWS, Docker, CI/CD, NGINX

Tools & Technologies Git, Celery, Mixpanel, Chart.js

Architecture & Design REST APIs, Microservices, System Design, API Architecture, Performance Optimization, Scalability, Async Processing

EDUCATION

Bachelor of Science in Computer Science

2012 - 2016

Moi University

PROJECTS

MyFinance AI — Python, TypeScript, Django, REST, Celery, scikit-learn, Machine Learning, PDF Parsing

MyFinance AI empowers M-Pesa users to gain insights into their financial health by automatically categorizing transactions from bank statements using custom machine learning models and providing tools for budget tracking and AI-driven financial advice.

[GitHub](#) · [Live](#)

Watchdock — Python, TypeScript, Go, Django, Next.js, React Native, Docker, PostgreSQL

Watchdock is a comprehensive observability platform that enables real-time monitoring of server metrics, error tracking, and incident management, enhancing system reliability and performance for developers and businesses.

[GitHub](#) · [Live](#)

Candor — Python, Django, Django REST Framework, PostgreSQL, Next.js, React, TypeScript, Tailwind CSS

Candor is a comprehensive customer support and feedback platform that seamlessly integrates support inboxes, feedback boards, and product insights to enhance user experience and drive product improvements.

[GitHub](#) · [Live](#)

Clarity — Go, Fiber, TypeScript, Next.js, Docker, PostgreSQL, Redis

Clarity is a comprehensive project management platform that streamlines collaboration through tasks, documentation, wikis, standups, chat, and AI-driven insights, enhancing team productivity and communication.

[GitHub](#) · [Live](#)