

Levis Kibirie

Full-Stack Engineer | Product Engineer | Founding Engineer

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Portfolio: levis.makejahomes.co.ke | GitHub: github.com/Levikib | LinkedIn: linkedin.com/in/levis-kibirie-6bba13344

SUMMARY

Full-stack engineer who takes products from problem definition to production. Co-founder and founding engineer of Makeja Homes, a live multi-tenant real estate platform in Kenya with three products (MANAGE, FIND and BUILD), 494 API routes and 230 pages, serving 80+ property companies and 5,000+ units. I work AI-native every day: I write the spec, delegate implementation to parallel coding agents (Claude Code), and review, test and own everything that ships. Strong in multi-tenant PostgreSQL, payments and webhooks, authentication and security, third-party integrations and grounded LLM features, with a designer's eye for the product surface.

EXPERIENCE

Co-founder and Founding Engineer, Makeja Homes

Nairobi, Kenya | Apr 2024 to Present | makejahomes.co.ke

- Built a multi-tenant property management SaaS from an empty repository to production: 4,500+ tenants, 5,000+ units and 3,000+ digitally signed leases across 80+ client companies, on 494 API routes and 5 role dashboards (admin, manager, caretaker, storekeeper, tenant).
- Designed schema-per-tenant PostgreSQL on Neon (40+ tables per company): tenant clients pinned by search_path in a capped LRU, and an idempotent per-tenant migration runner under a Postgres advisory lock so concurrent deploys queue instead of racing DDL.
- Built the money path on Paystack (cards and M-Pesa): HMAC webhook verified in constant time, payment and bill credited in one database transaction, idempotent replays, and stale pending payments reconciled against Paystack on read.
- Secured the platform with JWT (jose) sessions and Redis JTI revocation, Upstash rate limiting, CSRF double-submit and same-site checks, bcrypt, Cloudflare Turnstile and role-based access control.
- Shipped the business logic Kenyan landlords need: one-click monthly billing with water sub-meter charges, a Kenya tax module (rental income withholding, VAT threshold, land rates, stamp duty), digital lease signing with PDF generation, and an agents module that splits each rent payment into owner share and commission with an owner statement per cycle.
- Integrated KRA eTIMS e-invoicing (developed against the KRA sandbox), Twilio WhatsApp reminders and a self-service tenant chatbot, Resend email and Cloudinary media.
- Built Njiti, an in-dashboard AI assistant on Groq with role-scoped live data, a distilled long-term memory per company and a model fallback chain.

Makeja BUILD: construction marketplace, spec to production in Oct 2026

- Led a three-sided marketplace for merchants, service pros and buyers: 143 API routes and 47 tables covering shops and inventory, catalogue search, orders with per-merchant delivery quoting, Paystack checkout, job bids, material requests (RFQs), contracts with milestones, reviews and messaging.
- Built unified identity across three isolated account types: one sign-in with account switching, server-side sessions with device revocation, TOTP and SMS two-step login with recovery codes, email verification, and business teams with owner, manager, staff and viewer permissions plus an audit log.
- Ran the build as parallel AI coding agents, one git worktree per workstream (accounts, identity, AI, discovery), each working from a written brief and shared rules. I reviewed and merged every branch myself behind a zero-error TypeScript check on real Prisma types and a full production build; that gate caught 9 type errors that were silently failing every preview deploy.
- Built grounded AI that does not invent facts: product listings drafted from a photo and name, matched to a Kenyan construction knowledge base, then validated in code so any spec, brand or number it cannot trace is removed or flagged for the seller to confirm. Backed by a 49-case evaluation harness.
- Wrote the specs and decision records the team and agents build from: a schema contract, an escrow-style protected-payments design held behind a feature flag pending legal review, and a handoff document that lets a new engineer or agent session pick up the work cold.

Stack: TypeScript, Next.js 14, React, Node.js, PostgreSQL (Neon), Prisma and raw SQL, Upstash Redis, Paystack, Groq, KRA eTIMS, Twilio, Resend, Cloudinary, Vercel

Founder and Lead Engineer, ShanTech Agency (Shannara Global Agencies Ltd)

Nairobi, Kenya | May 2024 to Present

- Scope, design, build and support web products and automation for 12+ Kenyan SME clients, owning each project from discovery to launch.

- Elatec Safety Systems (elatecsafetysystems.co.ke): service-business site with a product shop, bookings, cart hand-off to WhatsApp, WhatsApp-first notifications with Africa's Talking SMS fallback, and hand-written schema.org data for local search. Next.js 14, TypeScript, Supabase.
- Noevella Group (noevellagroup.com): agency site on Payload CMS 3 with 11 collections so the founder publishes work and products without a developer; campaign attribution carried into every order and inquiry. Next.js 16, React 19, PostgreSQL, Vercel Blob, GSAP.
- Mikono Creations (mikono-creations.vercel.app): craft e-commerce store run as a multi-agent pipeline with audit gates. Agents labelled 88 client photos and videos with independent votes on unclear ones; 294 unit tests, Playwright mobile QA, a build-time pipeline producing 2,391 WebP variants, and a checkout that writes a referenced WhatsApp order.
- Built comment-to-DM and CRM automation in GoHighLevel and Zapier; one client grew website traffic 35% in two months, and paid and organic campaigns reached 250,000+ engagement views.

IT Specialist Intern, Ministry of Foreign and Diaspora Affairs, Government of Kenya

Nairobi, Kenya | Apr 2022 to Sep 2022

- Coordinated technology rollouts across ministry departments, cutting recurring system downtime by 20% through structured deployment planning and documented handovers.
- Supported hardware, software and network infrastructure in a high-security environment serving senior officials.

INDEPENDENT PROJECTS

GhostNet: cybersecurity training platform with an AI agent | ghostnet-pi.vercel.app | github.com/Levikib/ghostnet

13 training modules from OSINT to Active Directory, 8 security tools and a live leaderboard. GHOST, an LLM agent on Groq (Llama 3.3 70B), answers signed-in users with per-user rate limits and strict input validation. Next.js 14, Supabase.

Hookah 3D: interactive WebGL product page | hookah-website-two.vercel.app

A product that comes apart on scroll, split on the GPU with custom GLSL shaders. Next.js 16, React Three Fiber, GSAP.

Portfolio and web terminal | levis.makejahomes.co.ke | github.com/Levikib/levo-portfolio

Case-study portfolio with deep technical write-ups, a keyboard-first terminal for exploring the work, multi-persona lead form wired to email and WhatsApp, and structured data on every page.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, SQL, Python, Java

Frontend: React, Next.js (App Router, 14 to 16), Tailwind CSS, GSAP, React Three Fiber, responsive and accessible UI

Backend: Node.js, REST APIs and route handlers, webhooks, cron jobs, background reconciliation, PDF generation

Data: PostgreSQL (Neon), Prisma, raw parameterised SQL, multi-tenant schema design, migrations, Supabase, Payload CMS

Security: JWT sessions, token and device revocation (Redis), TOTP two-step login, RBAC and team permissions, rate limiting, CSRF and same-site guards, HMAC webhook verification

Payments and integrations: Paystack (cards, M-Pesa), KRA eTIMS, Twilio WhatsApp, Resend, Cloudinary, Africa's Talking, GoHighLevel, Zapier

AI: LLM features in production on Groq (Llama 3.3 70B, gpt-oss-120b, vision models), grounded generation with code-level validation, evaluation harnesses, in-product agents

AI-assisted engineering: Claude Code daily, parallel agents in isolated git worktrees, written specs and briefs, review gates (type checks, production builds, tests) before merge

Tooling: Git and GitHub, Vercel, Playwright, Linux

Design: Figma, Adobe InDesign, brand identity, editorial layout, DaVinci Resolve

EDUCATION AND CERTIFICATIONS

BSc Information Technology, Second Class Honours (Upper Division), Kenyatta University, Nairobi | Sep 2020 to Dec 2024

Oracle Cloud Infrastructure AI Foundations, Oracle, 2025

Absa ReadyToWork: AI and Data Science, Blockchain Technologies, Computational Thinking, Project Management, 2026

Cybersecurity and Ethical Hacking Certificate, Zalego Institute of Technology, 2020