

pemystack

PEMYSTACK

COMPANY PROFILE

We build software and make sure it works.

Software Development · Quality Assurance · AI Automation

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Company Overview

Pemystack is a technology consultancy based in Nairobi, Kenya. We help businesses build better software and put the right systems in place to keep it working reliably. We operate across three disciplines: software development, quality assurance, and AI automation, either individually or as a combined engagement.

Founded by Kennedy Wesley Isiaho, a software quality engineer and developer with over ten years of hands-on experience, Pemystack draws on work delivered across Kenya, Switzerland, and Europe. We have worked with EdTech companies, LegalTech platforms, hospitality software firms, and enterprise financial institutions. That range informs how we approach every new engagement: with context about what good engineering looks like at different stages of growth.

Our approach is direct. We come in as engineers, not advisors. We build the systems, write the tests, and deploy the software. Every engagement ends with working infrastructure your team can use and maintain, not a document with recommendations.

10+

years in quality
engineering and
software
development

3

major client
engagements
delivered across
three continents

12+

automation tools
and AI-powered
products built

80%

fewer post-
release defects
achieved for our
flagship client

Mission & Approach

OUR MISSION

To help product companies in Kenya and beyond build software that works: reliably, quickly, and confidently. We do this by bringing engineering rigour into three areas where it creates the most measurable value: the code itself, the systems that verify it, and the AI tools that automate the repetitive work around it.

Build, don't just advise

Every engagement produces working code or infrastructure, not recommendations only.

Leave the team stronger

We document what we build and coach the team to own it. The work outlasts the engagement.

OUR APPROACH

We assess what exists, agree on what success looks like, then build. We prefer small, focused engagements over open-ended retainers because they produce better outcomes. We write code, set up infrastructure, and hand over systems your team understands. Quality is engineered in, not checked at the end.

Measure everything

We define success in numbers before we start and report against them when we finish.

Our Services

Engagements can cover one service area or combine all three. Scope is defined around what your team actually needs.

01 Software Development

We design and build production-ready software: web applications, APIs, AI-powered platforms, and internal management tools. Every project is built with quality from the first commit: automated tests, deployment pipelines, and clean, maintainable code that your team can continue developing after we hand over.

This is suited for businesses that need a technical partner to build a new product, rebuild a legacy system, or add a significant new feature area to an existing application.

WHAT YOU RECEIVE

- Full-stack web applications built with modern frameworks (Next.js, React, Node.js, FastAPI)
- RESTful APIs and backend services with database design (PostgreSQL, Prisma ORM)
- AI-powered product features and model integrations (Claude API, Groq, OpenAI)
- Mobile-responsive frontends, including M-Pesa payment integrations
- Automated test coverage from the first commit, not added at the end
- CI/CD deployment pipeline to cloud infrastructure (Vercel, AWS, GitHub Actions)
- Full technical documentation and handover

SUITED FOR

- Startups building their first production product
 - Businesses replacing a manual process with a software system
 - Teams that need a senior engineer, not a junior hire
 - Organisations adding AI capabilities to existing software
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02 Quality Assurance

We assess how your engineering team currently tests software and build the infrastructure to do it properly. This covers the test strategy, automated test development, integration into your deployment pipeline, and developer coaching so the team owns quality going forward, rather than depending on a bottleneck QA sign-off before every release.

This is suited for companies that ship regularly but are paying for it in post-release bugs, slow manual regression cycles, or a test suite that nobody trusts.

WHAT YOU RECEIVE

- Quality maturity assessment: an honest picture of where your team stands today
- Test strategy document covering scope, tooling, and coverage targets
- Automated tests for Android apps, web platforms, and APIs (Kaspresso, Playwright, Cypress)
- CI/CD integration: tests run automatically on every code change
- Developer training on writing and maintaining tests (shift-left testing)
- Quality gates and release readiness checklists
- Measurable reduction in post-release defects and emergency hotfixes

SUITED FOR

- Product companies shipping frequently but losing time to regressions
 - Teams where QA is one person's responsibility, not the whole team's
 - Engineering leaders who want a quality system, not a quality report
 - Organisations preparing for rapid growth or increased product complexity
-

03 AI Automation

We build AI-powered tools that remove repetitive work from engineering and operational workflows. Not demos or experiments, but tools deployed into live workflows and used daily by real teams. Built on proven AI models (Claude, Groq, OpenAI) with proper integration into the systems your team already uses.

This is suited for teams that have identified specific manual tasks: review processes, report generation, data queries, document analysis, that could be automated with AI, but do not have the in-house expertise to build the integrations properly.

WHAT YOU RECEIVE

- AI agents built on Claude API, Groq, or OpenAI, deployed into live workflows
- LLM-powered pull request review agents that catch regressions before merge
- Conversational AI for internal data queries (no SQL required for staff)
- Document analysis and automated report generation pipelines
- MCP-based workflow integrations connecting Slack, Notion, GitHub, WhatsApp, and more
- AI-assisted test case and acceptance criteria generation
- Custom AI tools built to your specific operational process, not generic off-the-shelf products

SUITED FOR

- Engineering teams spending hours each week on manual code reviews
- Organisations with repetitive data querying and reporting workflows
- Companies processing documents manually (contracts, forms, reports)
- Teams already using Slack, Notion, or GitHub who want smarter integrations

Why Work With Pemystack

We are engineers, not advisors

Every engagement ends with working software or infrastructure, not a report with recommendations. We write the code, configure the pipelines, deploy the tools. When we leave, your team has something to show for it.

International track record, Kenyan context

Our work has been delivered for companies in Kenya, Switzerland, and Europe. We understand what enterprise-grade engineering looks like. We also understand the Kenyan market: mobile-first users, M-Pesa integrations, variable connectivity, and how local product teams operate.

Strategy and execution in one engagement

Many consultants hand over a quality strategy and leave. We design the strategy and then implement it. You do not need to coordinate between a strategy consultant and a development firm. One engagement covers both.

Formally qualified and certified

MBA in Project Management, BSc Computer Science, Certified Information Systems Auditor (CISA), and Google Project Management Certificate. The academic and professional foundations exist behind the practical work.

We leave your team stronger

We document what we build, coach the developers, and ensure the knowledge stays with your team. The quality infrastructure we put in place does not break the moment the engagement ends.

Proven, measurable outcomes

80% fewer post-release defects, 70% faster test execution, 40% shorter test cycles, 60% improvement in test coverage, all achieved on named client engagements. We measure outcomes, not effort.

Client Engagements

Selected engagements with measurable outcomes. References available on request.

Trellis

EdTech · Nairobi, Kenya

Lead Quality Engineering

Trellis is an EdTech company whose learning platform is used by hundreds of thousands of schoolchildren across Kenya and beyond. Kennedy joined as Lead QA Engineer and redesigned the company's entire quality architecture, replacing slow, fragile manual testing with a full automation suite across Android, web, and API layers.

The engagement introduced the Quality Assistance model: quality ownership distributed across all developers rather than held by one QA function. This cultural shift, combined with continuous testing in CI/CD, produced compound improvements in release speed and product stability.

80%

fewer post-release defects

70%

faster test execution

20%

improvement in time-to-market

40%

year-on-year QA efficiency gain

Aleno

Restaurant Software · Zurich, Switzerland

QA Consultant

Aleno provides restaurant management and booking software to premium hospitality venues across Switzerland. Kennedy evaluated and overhauled QA methodologies for the engineering team, introducing structured test cycles, automation tooling, and measurable quality benchmarks. The engagement was fully remote, delivered alongside concurrent commitments.

40%

shorter test cycles

60%

increase in test coverage

60%

fewer post-deployment defects

Incentro

Enterprise Technology · Netherlands / Europe

Software Engineer in Test

Incentro is an enterprise technology partner working with large European financial institutions. Kennedy led quality initiatives for data-heavy financial applications, managing high-load regression testing, SQL-based automated validation, and quality governance across technical and business stakeholders.

60%

increase in test coverage across financial applications

Products We Have Built

Alongside client work, Pemystack develops its own software. These are live products built end-to-end by the same engineer who will work on your engagement. They demonstrate the range and standard of what we build.

LIVE LegalTech · Kenya

CaseLens

An AI-powered legal research platform for Kenyan advocates. Lawyers upload case files and receive an AI readiness score, evidentiary gap analysis, and ODPP-aligned prosecution briefs drafted automatically against Kenya Law caselaw.

Built full-stack from scratch: Next.js frontend, Groq and OpenAI inference, Neon PostgreSQL with Drizzle ORM, OCR with Tesseract.js, M-Pesa and IntaSend subscription payments, and Vercel Cron for automated lifecycle management.

Next.js

Groq / OpenAI

Neon + Drizzle

M-Pesa

Tesseract.js

Playwright

[View live →](#)

LIVE Applied AI · FinTech · Kenya

SACCO AI Assistant

Conversational AI for Kenyan SACCOs. Staff query member data, loan portfolios, and financial analytics in plain English or Swahili via 14 purpose-built MCP tools, with role-based access control.

FastMCP

FastAPI

React

Groq

[View live →](#)

ACTIVE

Quality Engineering · AI
Automation

Android PR Acceptance Testing Agent

A Claude-powered GitHub Actions workflow that intelligently selects which of 60 instrumented Android tests to run per pull request, analysing code diffs and diagnosing failures with AI-generated insights.

45 min → 10 min on typical pull requests

Claude API

GitHub Actions

Android

Kotlin

The Team

Kennedy Wesley Isiaho

Founder & Principal Consultant

Kennedy is an experienced Software Quality Engineer and software development consultant with over ten years of experience. His career has spanned three continents: quality engineering for EdTech in Kenya, remote QA consulting for hospitality software in Switzerland, and software testing for enterprise financial applications in Europe.

He holds an MBA in Project Management, a BSc in Computer Science, the Google Project Management Certificate, and the Certified Information Systems Auditor (CISA) designation. These qualifications sit behind the practical work: he writes the code, configures the pipelines, and builds the tools himself.

In addition to client engagements, Kennedy actively builds his own software products: live applications in LegalTech, FinTech, and EdTech that demonstrate the breadth of Pemy's development capability.

ACADEMIC QUALIFICATIONS

- MBA, Project Management
- BSc, Computer Science

PROFESSIONAL CERTIFICATIONS

- Certified Information Systems Auditor (CISA)
- Google Project Management Certificate

TECHNICAL EXPERTISE

Languages	Kotlin · TypeScript · JavaScript · Python · SQL
Frameworks	React · Next.js · FastAPI · NestJS · Playwright · Kaspresso · Cypress
Infrastructure	GitHub Actions · Docker · PostgreSQL · Vercel · AWS · Sentry
AI & Automation	Claude API · Groq · OpenAI · FastMCP · Ollama · MCP tooling

How We Engage

We structure engagements to match what your team actually needs. Contracts can be denominated in Kenya Shillings (KES) or US Dollars (USD). All work is remote-first, with availability for in-person meetings in Nairobi.

ENGAGEMENT TYPE	DESCRIPTION	BEST SUITED FOR
Project-Based	Fixed scope, agreed deliverable, defined timeline. Priced per project.	Quality audits, automation builds, greenfield application development
Monthly Retainer	Ongoing engagement at agreed hours per month. Renews monthly.	Continuous QA support, AI tool maintenance, code review, ongoing development
Workshop	Half-day or full-day sessions for engineering teams. In-person or remote.	Quality practices training, test automation onboarding, AI workflow introduction
Full-Service Partnership	End-to-end engagement covering development, testing, and automation for a new product or feature area.	New product builds, major feature areas requiring full engineering coverage

How to start: Contact us with a brief description of what you are trying to build or fix. We will arrange a short call (30 minutes), understand the scope, and respond with a written proposal and estimate within three working days.

Get in Touch

We respond to all genuine enquiries within one working day.

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LINKEDIN	Connect on LinkedIn
GITHUB	View on GitHub
WEBSITE	Visit our website

Whether you need a quality strategy review, an automation build, a new software product, or an AI-powered workflow. Send us a short description of what you need and we will take it from there.