

# KENN MACHARIA

Software Engineer | Full-Stack Developer | Fintech & Payment Systems

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

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## PROFESSIONAL SUMMARY

Self-taught software engineer with 2+ years building production web applications and payment integration systems. Recently architected and deployed a full-stack e-commerce platform with **Stripe payment processing**, transactional email workflows, and secure API design for real customer transactions. Experienced in **React**, **Node.js**, **Django**, **PostgreSQL**, and **AWS cloud infrastructure**. AWS Certified Cloud Practitioner with hands-on experience in scalable backend systems, RESTful APIs, and database design for financial applications. Fast learner who ships working products and thrives in high-growth fintech environments.

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## TECHNICAL SKILLS

**Languages & Frameworks:** JavaScript/TypeScript, Python, React.js, Next.js, Django, FastAPI, Node.js, Express.js

**Payment & API Integration:** Stripe API, REST APIs, Webhooks, SendGrid, Real-time Transaction Processing

**Databases:** PostgreSQL, SQLite, MongoDB, Redis, Supabase

**Cloud & DevOps:** AWS (S3, RDS, EC2, SES), Docker, GitHub Actions, CI/CD, Vercel

**Other:** Git/GitHub, Agile Development, API Design, Database Schema Design, Secure Coding Practices

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## PROFESSIONAL EXPERIENCE

**Freelance Full-Stack Developer | Remote**

**Feb 2022 – Present**

**Key Project: Afrimall E-Commerce Platform ([afrimall.app](http://afrimall.app))**

- Architected and deployed **production-grade payment processing system** using Stripe API, handling secure checkout workflows and real customer transactions
- Built **webhook-driven backend** for payment confirmation, order processing, and transactional email notifications via SendGrid/AWS SES

- Designed **PostgreSQL database schema** for product catalog, order management, and payment records with ACID compliance
- Implemented **RESTful API architecture** with authentication, error handling, and rate limiting for secure client-server communication
- Deployed to **AWS/Vercel with CI/CD pipelines**, achieving 99.9% uptime and optimized server-side rendering for sub-2s load times
- **Tech Stack:** Next.js, TypeScript, Payload CMS, PostgreSQL, Stripe API, SendGrid, AWS

#### **Additional Client Projects:**

- Built custom e-commerce platforms with payment gateway integrations, achieving 98% project success rate
- Translated UI/UX designs into responsive, production-ready code with cross-browser compatibility
- Delivered secure API integrations and database solutions that improved system performance by 25%

#### **Founder & Software Engineer | SuperiaTech, Nairobi**

**Jan 2023 – Present**

- Leading development of AI-powered task management tools for small business owners
- Architected scalable backend systems using **Django, FastAPI, and AWS (RDS, S3, EC2)**
- Designed **webhook-driven event systems** with real-time sync for seamless user workflows
- Built secure, testable services in TypeScript/Node.js with **CI/CD pipelines** via Docker and GitHub Actions
- Reduced manual workflows by 30% through automation and improved system reliability

#### **Database Administrator | Lusiru School, Nairobi**

**Jul 2024 – Mar 2025**

- Managed **PostgreSQL databases**, ensuring security, uptime, and data integrity for student records
- Automated reporting workflows, eliminating manual overhead and improving operational efficiency

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## **KEY PROJECTS**

#### **Afrimall E-Commerce Platform | afrimall.app**

Full-stack payment platform with **Stripe API integration**, secure checkout, and real-time order processing. Built with Next.js, TypeScript, PostgreSQL, and AWS. Implemented webhook validation, transactional emails,

and optimized database queries for financial data. **Production-ready system handling real customer payments.**

### **Carbon Footprint Calculator**

Data-driven sustainability tool using **Django backend, AWS RDS (PostgreSQL)**, and React frontend. Designed intuitive dashboards for tracking emissions. Migrated to AWS infrastructure for reliable scaling and faster analytics.

### **SMS-AI Chatbot**

Built **webhook-driven chatbot** with NLP pipeline for intent recognition. Integrated real-time backend processing using **FastAPI and Redis** for conversation state management.

### **Worklog Tracker**

Personal productivity app using **React and Supabase** for authentication and real-time data syncing. Optimized component structure and query caching, improving rendering speed by 40%.

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## **EDUCATION & CERTIFICATIONS**

### **Jomo Kenyatta University of Agriculture and Technology (JKUAT)**

Bachelor of Engineering in Computer Software Engineering | 2019–2023

### **Amazon Web Services (ALX) | Cloud Computing Program | Nov 2024**

Focus on cloud-native design, infrastructure automation, and scalable architecture

#### **Certifications:**

- AWS Certified Cloud Practitioner (Oct 2024 – Nov 2025)
  - AWS Academy Graduate – Cloud Foundations (Dec 2024)
  - Africa's Talking x Google Build with AI Program (Oct 2025)
  - Responsive Web Design – freeCodeCamp (2023)
  - Scientific Computing with Python – freeCodeCamp (2023)
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## **WHAT I BRING TO CELLULANT**

- ✓ **Payment Systems Experience:** Built production payment workflows with Stripe API, webhooks, and secure transaction handling
- ✓ **Fast Learner:** Self-taught developer who went from zero coding knowledge to shipping full-stack payment platforms in under 2 years

- ✓ **Problem Solver:** Debug complex API integrations, design scalable database schemas, and build reliable backend systems
- ✓ **Collaborative Mindset:** Experienced working with clients, translating requirements into technical solutions, and documenting code for team collaboration
- ✓ **Growth-Oriented:** Passionate about fintech, continuously learning new technologies, and contributing to Africa's digital payment ecosystem