FREDRICK NJOROGE KARIUKI

AI Innovator ✦ *EdTech Founder* ✦ *IB Diploma Student*

CONTACT

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M-PESA Foundation Academy
Full Scholarship Recipient

TECHNICAL SKILLS

- Python ●●●●●
- Machine Learning ●●●●●
- TensorFlow ●●●●○
- XGBoost ●●●●○
- HTML / CSS / JS ●●●●○
- Flask / PHP ●●●●○
- Pandas & Seaborn ●●●●○
- CNN / LSTM ●●●●○
- Figma ●●●○○
- SQL ●●●○○

SOFT SKILLS

- › Strategic Leadership
- › Entrepreneurial Drive
- › Public Speaking & Pitch
- › Research & Data Analysis
- › Community Engagement
- › Creative Problem-Solving
- › Cross-cultural Collaboration

LANGUAGES

English
Native / Bilingual

Swahili
Native / Bilingual

German
Elementary Proficiency

TEST SCORES

IB MYP eAssessment
53 / 56 — A* (Rank 1 / 95)

KCPE 2022
414 / 500 — A* (Top 0.77%)

PROFILE

A full-scholarship IB Diploma student at M-PESA Foundation Academy and nationally recognized AI innovator. Fredrick is the founder of SomaVilivyo — an AI-powered personalized learning platform dismantling educational barriers across under-resourced African schools. He combines mastery of machine learning and full-stack development with award-winning entrepreneurship, civic leadership, and a singular mission: leveraging AI to reshape how Africa learns.

EDUCATION

M-PESA Foundation Academy
IB Diploma Programme (DP) · 2025 – 2027 · Kiambu, Kenya

Full scholarship: tuition, boarding, meals & materials — awarded to high-potential students from limited-resource backgrounds.

- ◆ MYP Valedictorian — 53 / 56 · Rank 1 of 95 students · A* grade
- ◆ Service as Action Leader & Secretary — cohort of 95 students
- ◆ IT Specialist, CJ Luxe Realtors (concurrent part-time role)

Triift Africa — START 3.0 Accelerator
Certificate: Business Strategy, AI & Entrepreneurship · Aug – Sep 2025

- ◆ Workshops: investor pitching, AI tools, marketing funnels, financial management & export readiness
- ◆ Collaborated with cross-African entrepreneur cohort toward investment readiness

Milimani Primary School, Naivasha
Primary Education · Jan 2015 – Jan 2022

- ◆ KCPE 2022: 414 / 500 — A* grade · 2nd in school · Top 0.77% of 1,233,852 national candidates
- ◆ Awarded school's inaugural bicycle prize for achieving 450+ marks

HONORS & AWARDS

★ **Excellence in Innovation — Student of the Year**
M-PESA Foundation Academy · Nov 2025

EXPERIENCE

Co-Founder & Chief Technology Officer
SomaVilivyo · May 2025 – Present · Remote, Thika

- ▸ Architected an AI-powered personalized learning platform using Google Gemini API + RAG to generate adaptive CBC-aligned curricula, question banks, and intelligent AI tutoring
- ▸ Top-10 finalist at AwardX International; 85% audience vote; concept validated by Harvard CS mentors and iHub Nairobi
- ▸ Pitched to Kenya's Deputy President at the Connected Africa Summit 2024; actively seeking iHub partnership for scaling
- ▸ Stack: Python (Flask), Google Gemini, TensorFlow, full-stack web, Netlify deployment

HundrED Global Youth Ambassador
HundrEDorg · Jun 2025 – Present · Remote

- ▸ Selected from a global competitive pool to amplify scalable education innovations worldwide
- ▸ Represented Kenya in campaigns on inclusive, future-ready learning; co-created international case studies

Resources Manager / Co-Founder
Exam Study Hall · Apr 2024 – Present · Remote

- ▸ Co-founded IB Grind Hub: comprehensive notes, past papers, IA/EE guidance, and AI tutoring platform
- ▸ Led exam prep sessions; improved engagement through personalized content and digital scheduling

Service as Action Leader & Secretary
M-PESA Foundation Academy · Feb 2023 – May 2025 · Kiambu

- ▸ Led 95-student cohort service project at Joytown School (special needs) — cleaning, renovation, and outreach
- ▸ Organized snack fundraiser generating 100% profit: KES 50,000 → KES 100,000 to fund project materials

Global Gab Squad — Podcast Member
Sep 2025 – Present · 10 voices across 8 global regions

INTERESTS

› AI & Emerging Technology
› Clean Energy & Sustainability
› Civic & Policy Advocacy
› Financial Markets
› Billiards / Pool

Academy's highest innovation honour. Recognised for pioneering high-impact, technology-driven solutions with exceptional creativity and real-world impact.

★ First Honours — IB MYP eAssessment Top Performer
M-PESA Foundation Academy · Nov 2025

Score: 53/56 — Ranked 1st of 95 students. Recognised for intellectual rigour and full curriculum mastery.

★ Science for Development Award
Young Scientists Kenya (YSK) · Jul 2025

Soil Microbial Fuel Cell project: AI-enhanced bioelectricity generation from organic soil, with OCR monitoring. Debut YSK entry.

★ Certificate of Distinction — Harvard CS AI Bootcamp
Harvard Computer Society · Jun 2025

Highest distinction for exceptional participation. Attended 11 PM – 3 AM EAT daily for 5 nights on full financial aid.

★ AwardX Finalist: International (3×) · Social Impact (2×) · East Africa
LaunchX Entrepreneurship Program · 2025

Top 10 finalist three consecutive years. Won 85% audience vote at 2025 AwardX International Demo Day.

★ Outstanding Academic Excellence Award
M-PESA Foundation Academy · Nov 2024

★ Top German Spoken Word Group Honor
Goethe-Institut · Jun 2024

★ Silver Medal — Woodcreek International Maths Olympiad
Woodcreek International School · Mar 2023

▸ Shares Kenyan and African narratives to foster cross-cultural understanding in a global media production

KEY PROJECTS

Soil Microbial Fuel Cell — YSK Award
Young Scientists Kenya · 2025

▸ Harnessed soil microbes + pit-latrine bio-waste to generate bioelectricity; OCR sensors + ML prediction algorithms for real-time energy optimization

Loan Approval Predictor
Personal · May 2024 – Jan 2025

▸ XGBoost model + Python Flask interface for real-time loan eligibility prediction from financial and credit data

Soko Field Renovation — Civic Initiative
Viwandani Ward, Naivasha · Dec 2024 – Present

▸ Authored formal proposal; presented at county public participation forum; secured KES 8M budget allocation for fencing and artificial turf installation

Digital Empowerment Academy
Community Initiative · 2024 – Present

▸ Community coding school at 20 KES/session; partnered with Ward MCA for venue, computers, and connectivity

Ufanisi Peerwise Hub
School Platform · Jan 2025

▸ Student-driven academic resource platform with AI-powered document summarization and peer feedback for MYP/DP students

Milimani School Website
Freelance · Jan – Apr 2025 · milimanischool.com

▸ Designed and deployed full institutional website using HTML/CSS/JS and Figma — live, fully functional

CERTIFICATIONS

▸ National Geographic Slingshot Challenge 2025 — Participant
▸ The Earth Prize 2025 — Team SafiDine, Participation Certificate
▸ Blue Ocean Strategy Student Entrepreneurs · Feb 2025
▸ Digital Marketing for Entrepreneurs — YALI · Feb 2025
▸ Data Analysis using Excel — Great Learning · Aug 2024
▸ Intro to AI · Robotics & AI · Modern Cryptography · Python Matplotlib — Great Learning · Jun 2023
▸ PHP · Tech for Everyone — Sololearn · Apr 2023
▸ Wavumbuzi Entrepreneurship Challenge — Participant (2023, 2024)