

CONTACT

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Nairobi, Kenya

EDUCATION

BSc Computer Science

Jomo Kenyatta University of Agriculture & Technology

Aug 2024 – Aug 2029 (Expected)

KCSE — High School Diploma

Grade: A- (80 points) · 2024

CERTIFICATIONS

Zoho Certified — Workshop

Awarded at an in-campus Zoho training workshop

TECHNICAL TOOLKIT

- ▶ Python
- ▶ Django & Flask
- ▶ scikit-learn / ML
- ▶ HTML, CSS, JavaScript
- ▶ Firebase
- ▶ Daraja (M-Pesa) API
- ▶ MegaPay API
- ▶ Git & GitHub
- ▶ VS Code
- ▶ Markdown

STRENGTHS

Machine Learning & OCR/CV

Full-Stack Web Development

Payment Systems Integration

Team Leadership (Hackathons)

Open-Source Collaboration

LAMPARD KIPYEGON KIRUI

MACHINE LEARNING · PYTHON & FULL-STACK DEVELOPER

PROFILE

Second-year Computer Science undergraduate at JKUAT with hands-on experience shipping real Python products — from machine learning and computer-vision tooling to Django/Flask web apps with live payment integrations. Comfortable owning a project end to end: five hackathon wins as team lead, a merged contribution to an open-source blockchain SDK, and a freelance track record building e-commerce sites that process real transactions. Looking for an internship or junior role to keep building production-grade software.

PROJECTS

CAPTCHA-Solving Chrome Extension

Personal Project

- Built and iteratively optimized a Chrome extension that automatically detects and solves CAPTCHAs in the browser.
- Implemented MutationObserver-based detection, concurrency guards, pre-solving, and exponential backoff for reliability at scale.
- Prototyped local OCR/computer-vision approaches (PaddleOCR, Tesseract, custom CNN training) before settling on a production-ready TrueCaptcha API integration; also built a companion labeling tool powered by Claude Vision.

CopperHead — Competitive Snake-Game Bot

Personal Project · Python

- Engineered a high-performance bot for the competitive snake game CopperHead, tuned to survive and outscore opponents in real time.
- Combined flood-fill and BFS pathfinding with Voronoi territory scoring and head-on collision logic to make safer, higher-value moves.

PyCardano

Open-Source Contribution

- Contributed fixes to PyCardano, the official Python SDK for the Cardano blockchain, including a fix for a CBOR array-decoding bug affecting 24+ item arrays.
- Resolved a Windows-specific file-permission bug in the test suite, improving cross-platform CI reliability; changes reviewed and merged upstream.

E-Commerce Sites with Live Payment Integration

Freelance

- Designed and built e-commerce websites for clients end-to-end, from product catalog to checkout.
- Integrated Safaricom's Daraja (M-Pesa) API and MegaPay to enable real, live payment processing for customers.

ACHIEVEMENTS & LEADERSHIP

- Team Lead & Winner — 5+ campus and inter-university hackathons, directing scoping, delegation, and final delivery under time pressure.
- Built "LifeLine AI" at a hackathon — a React-based concept app bundling wellness and emergency-response modules.

LANGUAGES & INTERESTS

English (fluent) · Swahili (fluent) — Writes beginner-friendly machine learning articles on Medium (@shad0wlord56); active in competitive/applied programming.