

Bradley Opiyo

Developer · IoT · AI & Robotics · Content Creator

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PROFILE

Self-taught developer with 5 years of experience building web applications, IoT systems, and AI-powered tools. Currently focused on Python, Flask, and ESP32 projects — with hands-on experience designing full-stack platforms, integrating payment APIs, and wiring embedded hardware. Content creator sharing tech projects and digital skills with a growing online audience. Passionate about turning ideas into working products that solve real-world problems in the Kenyan tech space.

SKILLS

Frontend

HTML5, CSS3, JavaScript,
Responsive Design

Backend

Python, Flask, SQLAlchemy, REST
APIs

Database

SQLite, MySQL, PostgreSQL

IoT & Hardware

Arduino, ESP32, Sensors,
Embedded C++

Design & Creative

Photoshop, Illustrator, Blender

Productivity & Advisory

Word, Excel, Digital Advisory

PROJECTS

Neckrone8x Stories — Full-Stack Platform

[Python](#) · [Flask](#) · [SQLAlchemy](#) · [SQLite](#) / [PostgreSQL](#)

Full-stack stories platform with public submission flow, admin dashboard, per-story analytics, 18+ age gate, IP-based read tracking, search, category filtering, and pagination.

Weather Application

weather.neckrone8x.co.ke

[Python](#) · [Flask](#) · [JavaScript](#) · [Weather API](#)

Weather dashboard showing current conditions, hourly and 5-day forecasts, UV index, air quality, and location search — built with caching and graceful API failure handling.

M-Pesa Daraja API Integration

[Python](#) · [Safaricom Daraja API](#) · [Backend](#)

Payment integration using Safaricom's Daraja API to process and manage M-Pesa transactions — including STK push, callback handling, and transaction state management.

ESP32 RGB Controller

[ESP32](#) · [HTML](#) · [CSS](#) · [WiFi](#) · [PWM](#)

IoT system hosting a web interface directly on an ESP32, enabling remote RGB LED control over local WiFi. Features channel sliders and preset scenes.

Browser Snake Game

[HTML](#) · [CSS](#) · [JavaScript](#)

Classic Snake game built from scratch in vanilla JavaScript — keyboard and touch controls, collision detection, and score tracking.

EDUCATION

University of Nairobi — BSc Computer Science	2019 – 2025
Nairobi, Kenya · Two consecutive programmes completed	
Maseno School — KCSE	Completed
Kisumu, Kenya	

CERTIFICATIONS

▸ freeCodeCamp — Responsive Web Design	▸ freeCodeCamp — JavaScript Algorithms
▸ freeCodeCamp — Python	▸ Cisco — Networking
▸ Cisco — Cybersecurity	▸ Cisco — Packet Tracer
▸ Cisco — AI	▸ Microsoft — Azure Fundamentals
▸ AWS — AI Practitioner	

LANGUAGES

English	Fluent	Kiswahili	Native
Dholuo	Native	Wanyero	Native
Kikuyu	Conversational		