SILA DENNIS NDOLO

Software Developer

PROFILE

Innovative Software Developer with a degree in Software Engineering and hands-on experience in POS systems, IoT integration, and machine learning. Skilled in Python, PHP/Laravel, and JavaScript frameworks, with a strong focus on building practical, user-friendly solutions. Passionate about using technology to improve real-world processes and drive impactful change.

CONTACT

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EDUCATION

Kisii University | BSc in Computer Science
Sep 2021 – Dec 2025

- Expected Graduation – 2025 December

Uduma Institute of Technology | Certificate in Information Communication Technology(ICT)
2019

- Graduated with Distinction (Grade A)

Isovya High School | Kenya Certificate of Secondary Education
2015 - 2018

- Grade: B (66 points)

WORK EXPERIENCE

Kisii County Government | Data Collection Specialist
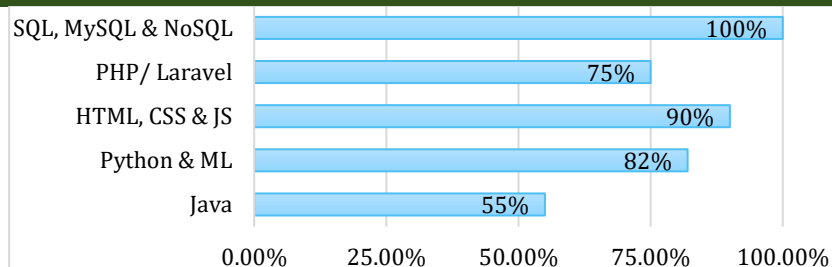*Jan 2025 – March 2025*

- Led a team of 3 field agents collecting citizen feedback data for county service improvement initiatives
- Conducted data cleaning and preliminary analysis, producing weekly reports for county leadership
- Recommended data-driven solutions that were incorporated into the county's 2025 development agenda

Makueni County Government | Software Engineering Attaché
April 2024 – August 2024

- Developed a Community Information Centre(CIC) System using Bootstrap Css, PHP - Laravel and MySQL
- Implemented user authentication and role-based access control in the CIC system.
- Created automated report generation features that reduced manual processing time by 65%
- Collaborated with a team of 3 developers to integrate payment gateway for county service fees
- Documented system architecture and created user manuals for non-technical staff

SKILLS

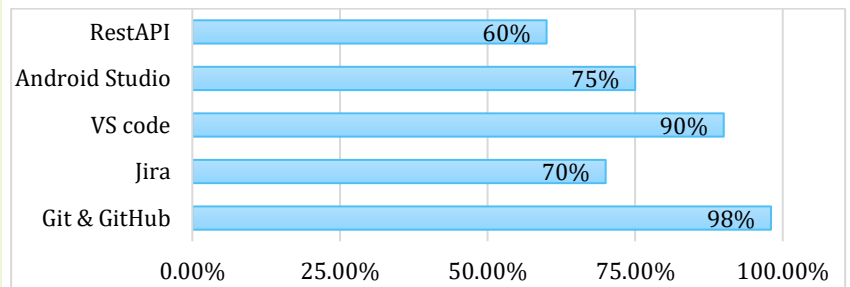| Skill	Percentage
SQL, MySQL & NoSQL	100%
PHP/ Laravel	75%
HTML, CSS & JS	90%
Python & ML	82%
Java	55%

LANGUAGES

- English (Fluent)
- Swahili (Native)

REFEREES

1) Benard Maake Ph.D
   Computer Systems Engineering
   Lecture/Director of E-Learning
   Kisii University
   Phone +254 715 867778

2) Benjamin Kyambo
   Lecturer Data Structures
   Kisii University Computing Department
   Phone +254 712 801233

3) Brian Adams
   Chairperson KUCSA
   Kisii University Computing Department
   Phone +254 111524408

Git & GitHub 98%
Jira 70%
VS code 90%
Android Studio 75%
RestAPI 60%

0.00%   25.00%   50.00%   75.00%   100.00%

PROJECTS

Real-Time Pothole Detection System
Python, YOLO, Flask, IoT Integration — 2025

- Developed a real-time object detection system using the YOLO model to identify potholes and road anomalies
- Integrated with IoT devices to collect and transmit data from roads to a central server via Flask
- Built a user-friendly web interface to monitor and display pothole condition and analytics to maintainance team.
- **Featured at the Kisii University Innovation Exhibition 2025**

E-Point of Sale (ePOS)
PHP (Laravel), Bootstrap, MySQL — 2024

- Developed a POS system for **retail and shop management**, enabling seamless daily sales tracking and transaction processing
- Implemented **stock management** features including inventory updates, restocking alerts, and product tracking
- Integrated **analytics dashboard** to visualize daily sales, revenue trends, and product performance
- Designed a user-friendly interface for efficient use by shop owners and staff with minimal technical training

Basic School Management System
React.js, JavaScript, Bootstrap — 2022

- Developed a lightweight school management system for student enrollment, class management, and basic grading
- Implemented responsive UI for use across devices, improving accessibility for teachers and staff