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## **PROFESSIONAL OBJECTIVE**

Passionate educator turned technologist, blending a strong foundation in curriculum design with hands-on software engineering and data science experience. I aim to nurture young learners in 21st-century skills by integrating problem-solving, ethical digital practices, and emerging technologies such as coding, robotics, and AI. Seeking to contribute to environments where education meets innovation to prepare students for the future of work.

## **EDUCATION**

### **ALX Data Science Program**

*Certificate* | 2025 – Present

- Current coursework in Python for Data Science, statistics, machine learning, and data visualization

### **ALX Software Engineering**

*Certificate* | 2023 – 2025

- Mastered backend and frontend projects under peer-reviewed models and strict deadlines
- Key focus areas: systems programming, web development, DevOps, algorithms

### **PowerLearn Project**

*Certificate* | 2023

- Completed 16-week intensive training on web development, data systems, and entrepreneurial thinking
- Participated in hackathons and cross-collaboration tech activities

## University of Nairobi

### BSc Education (Arts): Mathematics & Geography | 2019 – 2024

- Specialized in curriculum development and classroom teaching
- Focused on analytical thinking, mathematical modeling, and pedagogy

## KEY SKILLS

**Programming:** Python (Advanced), C (Intermediate), JavaScript

**Web Development:** Django, Flask, HTML, CSS, Tailwind

**Data & Tools:** MySQL, Git & GitHub, Vagrant, VSCode, Replit, Vi/Vim

**DevOps Basics:** Regex, Ruby, Sed, Awk

**Educational Skills:** Curriculum Design, Student-Centered Teaching, Lesson Planning

**Century Skills:** Design Thinking, Critical Thinking, Collaboration, Communication

**Languages:** Fluent in English and Swahili

## PROJECT EXPERIENCE

- **Teaching Practice Management System(TPMS) ➔ Ongoing**

Designed a digital tool to automate teaching supervision, reporting, and evaluation for education institutions. The project focuses on user management, feedback workflows, and integration of analytics to monitor student-teacher growth.

**What I learned:** Software planning in educational domains, system modeling, and user role-based access control.

- **Sports Academy System**

Built a full-featured management system for a sports training institution, enabling team registration, event scheduling, and performance tracking.

**What I learned:** Complex form handling, relational data structuring, real-time validation, and CRUD operations.

- **Car Booking System**

**Stack:** Python, Flask, MySQL

Developed a backend booking platform where users can reserve, modify, or cancel vehicle bookings.

**What I learned:** RESTful API logic, routing and authentication, real-world inventory use cases.

- ***AirBnB Clone Project (ALX)***

**Stack:** Python, Flask, MySQL

Cloned core features of AirBnB including property listings, booking, and user accounts.

**What I learned:** End-to-end system architecture, schema design, and data-driven application logic.

- **Simple Shell in C (ALX)**

Built a UNIX-style shell to execute commands, manage processes, and parse input.

**What I learned:** OS fundamentals, memory management, process handling, C structures and pointers.

## **ADDITIONAL ATTRIBUTES**

- Strong ethical grounding from classroom teaching and software collaboration
- Fast learner with self-driven motivation for continuous improvement
- Comfortable working in high-pressure environments with agility and precision
- Committed to integrating ethical behavior, inclusivity, and creative problem-solving in all training

## **REFEREES**

**DEV WAMAE NDIRITU**

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