

Shepherd Motsi

Software Developer & Product Builder

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PROFILE

Computer Science graduate and software developer focused on building practical software systems that solve real-world business problems. Experience spans full-stack development, business management systems, AI/ML applications, mobile applications, databases, networking and deployment. I enjoy taking a problem from an initial idea through architecture, development, deployment and continuous improvement.

EXPERIENCE

IT Intern - Pacific 24 Hour Hospital

August 2023 - August 2024

Web development, system development, networking, IT support and hardware troubleshooting.

Computer Science / ICT Teacher - Cambridge Private School

[Add dates]

Cambridge IGCSE Computer Science, Cambridge A Level Computer Science, ICT, programming and computing.

EDUCATION

BSc Honours Degree in Computer Science - University of Zimbabwe

Upper Second Class (2.1). Dissertation: early disease detection in broiler chickens using audio and visual analysis.

SELECTED PROJECTS

Driving School Management System

Role-based platform for students, instructors, scheduling, payments, reports and SMS/WhatsApp notifications. Django, PostgreSQL, JavaScript, Tailwind CSS, Twilio, Docker.

Hospital Management System

Web platform for patients, reception, doctors, nurses, payments, medical records and receipt printing. Python, Flask, PostgreSQL.

Early Disease Detection in Broiler Chickens

Final-year dissertation: audio and visual ML models on a Raspberry Pi with Firebase and an Android app.

School Innovation Hub

Platform for teachers to submit ideas and for reviewers to assess them. Django, PostgreSQL.

TECHNICAL SKILLS

Backend: Python, Django, Flask, Node.js, PHP, Java

Frontend: JavaScript, HTML, CSS, Tailwind CSS, React, Next.js, TypeScript, Bootstrap

Databases: PostgreSQL, MySQL, Firebase

DevOps: Docker, Docker Compose, Linux, Nginx, Gunicorn, VPS deployment

AI / ML: Machine learning, computer vision, audio classification, AI integration

Mobile: Android / Java, Flutter

Other: Git, GitHub, REST APIs, networking, cybersecurity fundamentals, system architecture