MARVIN MUTUGI MBAE, RN

Kenya Registered Nurse | Digital Health Specialist | Smart Clinic & Telehealth Systems Architect

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PROFESSIONAL PROFILE

Kenya Registered Nurse and Digital Health Specialist with strong experience in clinical service delivery, community health programs, and digital health systems design. Founder of Marvin Health Systems, focused on building smart clinics, telemedicine infrastructure, AI-powered healthcare automation, and secure clinical IT networks.

Experienced in school health programs, maternal and child health clinics, outpatient care, community vaccination, vision programs, and public health training. Passionate about transforming healthcare delivery through technology, automation, and secure digital systems across Africa.

CORE COMPETENCIES

- Clinical Nursing Practice (OPD, ward, triage, MCH, wound care)

- Digital Health Systems & EMR Workflow Design

- Telemedicine & Hybrid Clinic Models

- AI Healthcare Automation & Chatbots (Jaseci, JacLang)

- Smart Clinic Infrastructure

- Healthcare IT Networking (Cisco)

- Health Data Security & Privacy

- Public Health Program Implementation

- Community Health Training

- Healthcare Cybersecurity Fundamentals

PROFESSIONAL EXPERIENCE

Nurse Officer — Village HopeCore International

September 2018 – November 2024

Worked as a Nurse Officer supporting large-scale community and school health programs across rural Kenya.

Key Responsibilities & Achievements

- Conducted School Health Programmes delivering eye screening, health education, minor ailment treatment, counselling, and referrals for students.

- Led school WASH programmes including water chlorination testing and hygiene education.

- Conducted Village-Based Mother & Child Health (MCH) Clinics providing treatment of common childhood illnesses, family planning services, growth monitoring, nutrition education, vitamin A supplementation, deworming, and immunization sensitization.

- Served as **Lead Nurse for the Vision Programme**, providing:

  - Visual acuity assessments

- Administration of dilating medication for ophthalmologist clinics

- Coordination of specialist eye clinics

- Referral management to City Eye Hospital, Kikuyu Eye Hospital, and Chuka Teaching & Referral Hospital

- Report writing and clinical documentation

- Staff CMEs on eye health

- Conducted health education and clinical training for community health providers and staff.

- Led COVID-19 community sensitization and administered approximately **2,000 COVID-19 vaccines**.

- Led HPV sensitization and vaccination for girls aged 10–12 years (administered approximately **150 HPV vaccines**).

- Ran Community Outpatient Clinics providing:

  - Treatment and triage

  - Nebulization

  - Growth monitoring

  - Equipment sterilization

  - Wound care

  - Blood pressure and random blood sugar testing

  - Antenatal services and family planning (short-term and long-term methods)

- Participated in donor-funded project reporting and Ministry of Health (MOH) reporting.

General Nurse — St. Ann Mission Hospital, Igoji

October 2017 – August 2018

Worked as a ward nurse providing inpatient and perioperative care.

Key Responsibilities

- Medication administration

- Ward rounds support

- Nursing procedures including suctioning and wound dressing

- Perioperative patient preparation

- Clinical documentation and reporting

- Cardex management and patient monitoring

DIGITAL HEALTH & INNOVATION PROJECTS

Founder — Marvin Health Systems

2024 – Present

- Founded a digital health consultancy focused on smart clinics, telemedicine systems, healthcare automation, and secure clinical IT infrastructure.

- Designed hybrid clinic workflows integrating physical care with virtual consultations.

- Designed EMR workflows for patient registration, appointments, clinical documentation, and reporting.

- Designed AI-powered patient follow-up and appointment reminder systems using WhatsApp automation.

- Designed healthcare cybersecurity policies including access control, BYOD, acceptable use, and patch management.

- Designed secure healthcare IT networks using Cisco networking principles.

EDUCATION

Diploma in Kenya Registered Nursing

Nakuru West Medical College — September 2014 to September 2017

Kenya Certificate of Secondary Education (KCSE)

Kiurani Secondary School — 2009 to 2013

Kenya Certificate of Primary Education (KCPE)

Chogoria Boys Boarding School — 2004 to 2008

Kajiathitu Primary School — 1998 to 2003

PROFESSIONAL TRAINING & CERTIFICATIONS

- Digital Transformation Programme — Saïd Business School, University of Oxford (in partnership with UNICEF)

- Cybersecurity & Digital Health — Digital Health Skills for Africa Programme

- Advocacy for Digital Justice — Ahaki Institute

- Cisco Networking Programme (Healthcare IT Infrastructure & Networking)

- Good Clinical Practice (GCP)

- COVID-19 Training for Healthcare Workers — AMREF Health Africa

- Basic Life Support (BLS) — Kenya Red Cross

- Computer Systems & Operations — Unity College of Professional Studies

- Community Health Assistant (CHA) Training — Tharaka Nithi County Government

- Cervical Cancer Screening Seminar

- Intrauterine Contraceptive Workshop

- Certificate in Counselling and Psychology

- Gender-Based Violence & Child Protection Training

- Digital Health — VC Health Tech Hub

RESEARCH EXPERIENCE

Research Project (June 2016 – January 2017)
Participated in proposal development, data collection, analysis, and presentation of research on factors leading to alcoholism among youths (13–35 years) in Kaptembwa slums, Nakuru.

VOLUNTEER & LEADERSHIP EXPERIENCE

Kenya Red Cross Society
Emergency Response Volunteer — Nakuru Branch & Tharaka Nithi County Branch

- Participated in emergency response operations and disaster evacuation exercises.

PROFESSIONAL INTERESTS

- Smart Clinics & Telemedicine Infrastructure

- AI-Powered Primary Healthcare Systems

- Digital Public Health Systems

- Secure Healthcare Networks

- Healthcare Automation & Innovation

REFEREES

Available upon request