MICHAEL OTIENO OMONDI
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Professional Summary

I am a results-driven Computer Scientist with expertise in software development, web solutions, and artificial intelligence. Proficient in Python, C, Java, and web technologies such as Laravel and Django. I specialize in machine learning, data analysis, cybersecurity, cryptography, MySQL database management, face detection systems, CCTV operation, and internet troubleshooting. I have hands-on experience in both research and real-world ICT environments, including hospital-based systems. I am passionate about leveraging technology to deliver innovative and practical solutions.

Education

Bachelor's Degree in Computer Science (2021–2025)
University of Embu – graduated second class division

Malaria Research Program (2019–2021)
ICMR (International Centers of Excellence for Malaria Research)

High School Education (2015–2018)
Prof. Ayiecho Obumba Secondary School – Achieved a C+

Primary School Education (2006–2014)
Kang'o Primary School – Scored 268 marks

Work Experience

Attachment – ICT Department
Tenri Children Hospital, Embu (6 months)
- Gained hands-on experience in an ICT environment supporting hospital systems.
- Assisted in basic troubleshooting, software updates, and IT support for medical staff.
- Exposed to hospital information systems, networking, CCTV operation, and internet troubleshooting.

Field Assistant
ICMR Malaria Research (2 years)
- Assisted in data collection and analysis for malaria research.
- Collaborated with field teams to ensure accurate and efficient data handling.

Coding Club Member
University of Embu (1 year)
- Developed Python-based AI models and web applications.
- Led collaborative projects utilizing Django, Laravel, and JavaScript

Skills
- **Programming Languages:** Python, C, Java
- **Web Development:** HTML, CSS, JavaScript, Laravel, Django
- **Database Management:** MySQL
- **AI and Data Science:** Machine Learning, Pandas, NumPy, Model Training, Cryptography
- **Specialized Systems:** Face Detection, CCTV Operation
- **Networking & IT Support:** Internet Troubleshooting, System Maintenance
- **Research & Collaboration:** Field research experience, teamwork in technical projects **Projects**

- **AI-Powered Chatbot:** Designed and deployed a chatbot using Python and ML for customer support.
- **E-Commerce Website:** Built an e-commerce platform with Laravel, integrated payment gateways.
- **Malaria Data Analysis Tool:** Used Pandas/NumPy to analyze and visualize malaria data.
- **Timetable Scheduling System:** Python-based system for class allocation using constraint programming.
- **Car Selling Website:** Django-based platform for car listings with advanced user features.
- **Classroom System Follow-Up:** Python system for tracking student attendance and performance.
- **Face Detection System:** Python and OpenCV-based application with facial recognition.
- **Database-Driven Applications:** MySQL-integrated apps for both web and AI solutions.

GitHub Projects

Projects are available on my GitHub profile. Some are private, others are public and accessible.

References

1. **William Mugo**
   Occupation: HOD ICT
   Tenri Children Hospital
   Phone: +254 725 846 304
2. **Charles Ondere**
   Occupation: Doctor
   Aghakan Hospital, Mombasa
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3. **Joseph Minati**
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