MICHAEL OCHIENG OTIENO

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Professional Summary

Passionate and highly motivated Mathematics and Computer Science student at Maseno University with a strong foundation in data science, software development, data analytics, and problem-solving. Skilled in applying analytical and technical expertise to real-world challenges and committed to contributing to innovative projects in technology and data-driven solutions.

Education

Maseno University
Bachelor of Science in Mathematics and Computer Science
(Expected Graduation: December 2026)

Namasoli secondary school
Managed to score B+ with mathematics, physics chemistry and computer science being the best performed subjects
(KCSE CLASS OF 2021)

Technical Skills

- **Programming Languages:** Python, Java, PHP, JavaScript, SQL
- **Web Technologies:** HTML, CSS, Bootstrap
- **Frameworks & Tools:** Django, Power BI, Tableau, Pandas, Statsmodels
- **Database Management:** MySQL
- **Version Control:** Git, GitHub

Projects

Sales Forecasting Using Time Series Analysis

- Developed a forecasting model using **Python (Pandas, Statsmodels)** to analyze historical sales data and predict trends.
- Used **Tableau** to visualize forecasted sales patterns and provided actionable business recommendations.

Climate Change Dashboard

- Created an interactive **Power BI** dashboard displaying climate change trends using real-world datasets.
- Applied **data visualization techniques** to enhance insights for stakeholders.

Waste Management System

- Developed a **PHP, CSS, and JavaScript-based** system for efficient waste collection tracking.
- Implemented **user authentication**, waste pickup request features, and an admin dashboard.

Hospital Management System & Online Birth Certificate System

- Designed **database-driven PHP applications** for hospital and birth registration management.
- Integrated **secure login authentication** and structured data handling.

Currency Converter in Java

- Built a Java-based application that converts currencies based on real-time exchange rates.

Work Experience & Volunteering

Data Collection Volunteer | Aquaclean (SGR Phase 2C Project)

- Collected environmental data using **Kobo Collect** for research and analysis.
- Gained hands-on experience in **field data gathering and management** (Nov 2024 - Dec 2024).

Certifications & Achievements

- **Basics of Data Science** (Certified)

Hobbies & Interests

- Exploring **Web 3 & Blockchain Technology**
- Data visualization and analytics
- Problem-solving & algorithmic thinking
- Reading blogs on techs