**BRIAN ALBERT NDESA**  
MACHAKOS, KENYA,  
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### ****Profile****

A highly motivated Software Development Engineer with expertise in front-end and back-end development, database management, version control, and Android development. Seeking to contribute technical skills to a dynamic team environment.

### ****Education****

**Bachelor of Science in Information Technology**  
Machakos University | **Graduation Year: 2026**  
**Relevant Coursework:** Data Structures, Algorithms, Web Development, Android Development, Software Engineering

### ****Technical Skills****

* **Programming Languages:** JavaScript, Java, Python, HTML, CSS
* **Front-End Development:** JavaScript, React.js, HTML5, CSS3, Tailwind
* **Android Development:** React Native
* **Back-End Development:** Python, JavaScript, RESTful APIs, Django, Node.js, Express.js
* **Database Management:** MongoDB, PostgreSQL
* **Version Control:** Git, GitHub

### ****Projects****

### ****Clients Projects:****

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### Online Food Ordering with payment site : https://hotel-site-hazel.vercel.app/

### Learning Management system: <https://learnig-management-sytem.vercel.app/>

### Consultant Site: https://bobgroganconsulting.com/

#### ****Smart Farm Project****

* Developed a **Smart Farm** system to automate and optimize farming processes.
* Implemented a **web-based dashboard** for real-time data visualization and decision-making.

#### ****Sign Language Interpretation AI****

* Designed and trained a **machine learning model** for sign language recognition and interpretation.
* Integrated **computer vision techniques** using MediaPipe and OpenCV for hand gesture detection.
* Developed a **user-friendly interface** for real-time sign language translation.

### ****Achievements****

* **MKSU Hackfest 2023**: Awarded **First Runners-Up** at Machakos University Hackfest 2023 for leading backend development on an **agricultural advisory AI** project.
* **Machakos University Innovation Day 2024**: Led a team to **1st place** with an **Arduino-based smart farming project** that automated agricultural processes.
* **Kenyatta University 6th Economic Symposium**: Developed a **fully automated agricultural system** using Arduino technology, integrating **data collection and predictive analytics** for optimized farming.
* **Machakos University Innovation Day 2025**: Led a team to **2nd place** with an **Arduino-based smart farming project** that automated agricultural processes.

### ****Languages****

* **English** (Fluent)
* **Swahili** (Native)

### ****References****

**Dr. Omuya Erick, Ph.D**  
CoD - Department of Computing and Information Technology (CIT)  
Machakos University (MksU)  
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