



# JUSTINE BARASA

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 <https://justinebarasa.github.io/Barasa-Portfolio/>

## Objective

Aspiring to leverage my academic background in Information Technology to gain practical experience and contribute to innovative projects within a dynamic and growth-oriented organization. Eager to develop technical skills in software development, cybersecurity, and data analysis, while collaborating with professionals to solve real-world IT challenges and enhance organizational efficiency.

## Education

- Kabarak university** 2021-2025  
Bachelor degree of science in information technology  
Undergraduate
- Matayos mount olive secondary school** 2020  
KCSE  
C+
- St Joseph ganjala primary school** 2016  
KCPE  
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## Skills

- Programming Languages Proficiency in languages such as Python, Java, C++, and JavaScript
- Data Structures and Algorithms. Understanding of fundamental data structures (arrays, linked lists, trees, graphs) and algorithms (sorting, searching, dynamic programming).
- Database Management. Knowledge of SQL and NoSQL databases, data modeling, and database design.
- Web Development. Skills in front-end (HTML, CSS, JavaScript) and back-end development (Node.js, PHP, Django).
- Mobile App Development Skilled in designing, developing, and deploying user-friendly mobile applications for Android and iOS platforms.

## Projects

- Web developer**  
Built my first website as my school project.
- AI sorting dustbin**  
The AI Sorting Dustbin uses advanced machine learning and computer vision technologies to automatically identify, classify, and sort various types of waste into appropriate categories such as recyclables, organic waste, and non-recyclables.
- Employee management system( standalone)**  
Built a comprehensive Employee Management System that streamlines HR processes, enhances employee engagement, and improves organizational efficiency. The system aims to automate routine tasks, facilitate effective communication, and provide robust data analytics to support informed decision-making, thereby fostering a productive and cohesive work environment.
- Online examination app**  
Design and develop a secure, user-friendly online examination application that facilitates efficient administration, delivery, and evaluation of exams. The application aims to ensure academic integrity through advanced proctoring features, provide a seamless experience for both educators and students, and offer robust analytics for performance assessment and continuous improvement in the learning process.
- Sentence similarity checker**  
Developed a robust application that measures the similarity between two sentences using natural language processing (NLP) techniques.

## Personal Details

- Date of Birth : 11/11/2002
- Nationality : Kenyan
- Religion : Chriatian
- Gender : Male

Reference

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- **Chris Alukwe - "Kabarak university"**  
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