ASHRAF MOHAMMED HASSAN

Software Engineer

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Linkedin | GitHub | Portfolio

EDUCATION

Jomo Kenyatta University of Agriculture and Technology Kiambu, Kenya
Computer Science Bachelor's Degree September 2021 - November 2025

Mewa Vocational training center Mombasa, Kenya
Computer Applications Certificate June 2021 - August 2021
GPA: Distinction

Memon Academy High Mombasa, Kenya
Secondary Education KCSE January 2017 - February 2021
Percentage: 81 A%

Memon Academy Primary Mombasa, Kenya
Primary Education KCPE January 2007 - December 2016
Percentage: 413/500 A%

EXPERIENCE

Jomo Kenyatta University of Agriculture and technology | Internal Attachee Kiambu, Kenya | May 2023 - July 2023

Engaged in an internal attachment within the university, gaining exposure to various facets of computer science. Collaborated with peers to develop a comprehensive School Management System tailored for a Madrassah. Contributed to the analysis, design and development phases of the project, ensuring functionality and user-friendliness.

Project: https://github.com/Habib-Ashraf-Hassan/internal$attachment$project

JHUB Africa | Software engineer attachee Kiambu, Kenya | May 2024 - August 2024

Did my external attachment here, while gaining the necessary industrial skills needed, we worked on building a student freelancer platform , see more details at : https://kazikazini.jhubafrica.com/

SKILLS

Programming Languages:	Python, PHP, SQL, Java, HTML, CSS, Javascript, bash
Libraries/Frameworks:	Matplotlib, Pandas, Numpy, Bootstrap, React, Next, Tailwind, Scikitlearn, Pillow, mongoose, Flask, Scikit-learn, huggingface
Tools / Platforms:	My SQL workbench, PHPmyadmin, Git, Slack, draw.io, Excel, Access, TessaractOCR, Figma, VS code, GitHub, Render, Microsoft Azure, Ms Word, Google Colab
Databases:	mySQL, MongoDB

PROJECTS / OPEN-SOURCE

CandidAI | Link *Tailwind CSS, Next.js, React.js, MongoDB*

Implementation of my Final year CS project: An AI resume screening app, that utilizes **NLP** and powerful **LLMs** like OpenAI and Ollama to parse resumes then score them then rank the candidates applied to a HR's Job post according to their scores thus streamlining the recruitment process

Resume NLP models | Link *SpaCy, NLTK, BERT transformer models, scikit-learn*

- Contains Models built to extract the needed details from a resume using NLP and Machine learning

Resume Parser Module | Link *Flask, OpenAI, Joblib, Hugging Face, Render*

- With this project, i could combine the models built in *Resume NLP models* and Azure OpenAI to build a module that would extract all the needed details a HR needs from a resume
- The details needed would be returned as json data
- Module was then deployed and accessed via an api built in Render

Adan Madrassah | Link   *HTML, CSS, Bootstrap, Javascript, mySQL, PHP*

Its a Madrassah Management System ;a comprehensive web application developed using PHP, MySQL, HTML, CSS, and the Bootstrap CSS framework. It serves as an efficient tool for the administrators, teachers, registrars, and students of an Islamic learning institute (Madrassah). This system automates various tasks that were previously done manually, such as grading students, registering new students and teachers, and streamlining administrative operations.

HustleHub | Link   *HTML, CSS, Bootstrap CSS, Javascript, PHP, SQL*

The project was to solve:
- Residents in Juja find it difficult to locate and find skilled laborers (electricians, plumbers, carpenters, cleaners, laptop technicians) from a single point thus Hustle Hub will give our users an easy way to access any of the above technician from just an app.
- Skilled laborers have a hard time to market themselves, thus the Hustle Hub Gives them a place to advertise themselves.

Kazi Kazini | Link   *Next.js, Tailwind CSS, React.js, Django*

- KAZI & KAZINI aims to address several challenges faced by both employers and skilled workers in the recruitment and employment process.
- For employers, finding qualified and reliable personnel can be time-consuming and challenging, leading to project delays and increased costs.
- On the other hand, skilled workers, especially those who are students or recent graduates, often struggle to secure meaningful employment opportunities due to a lack of visibility and connections within the industry or due to competition often experienced in other gig platforms
- KAZI & KAZINI offers a comprehensive platform that bridges the gap between employers and students. The platform's core features are designed to streamline the hiring process, provide valuable opportunities for skill development and income generation, and foster a transparent and efficient marketplace for freelance work and projects.

NSE-stock-regression | Link   *Python, Streamlit, Scikit-learn*

Model built to predict Stock prices from NSE(Nairobi Stock exchange) using python machine learning libraries and deployed using streamlit

Digital-Image-Processing | Link   *Tessaract OCR, langdetect , deep_translator , Pillow*

Term project done on the unit of Digital Image processing, B.Sc Computer Science, where i utilize OCR and Image pre processing techniques to extract text from images, then detect the language of the extracted text and translate it to a user's language of choice

Traffic-road-Classifier | Link   *Scikit-learn, Streamlit*

Model built to predict how risky a road is / how likely is a road going to have an accident based on accident details for roads in Kenya

Swahili dishes restaurant | Link   *HTML, CSS, Javascript, PHP, SQL*

- This is a website made for Swahilidishes restaurant; a restaurant said to be located near JKUAT university which offers takeaway and sit-in services.
- Has a page for only authorized users to be able to view data in a table which stores the customers' order details

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CERTIFICATIONS

- Microsoft Azure Fundamentals - **Microsoft**
- Alteryx Foundational Micro-Credential - **Alteryx**
- Machine Learning Fundamentals Micro-Credential - **Alteryx**
- Alteryx Designer Core Certification - **Alteryx**

- Backend Web development with Node.js - **Devtown**
- Problem Solving skills - **HackerRank**
- SQL - **HackerRank**
- Python programming language - **HackerRank**
- Computer Applications(Ms word, excel, powerpoint, Access) - **Mewa Vocational Training center**
- KCSE - **KNEC**
- KCPE - **KNEC**
- Javascript Programming - **HackerRank**