

# ASHRAF MOHAMMED HASSAN

Software Engineer

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<https://www.linkedin.com/in/ashrafmohammedhassan/>

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<https://github.com/Habib-Ashraf-Hassan>

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[https://habib-ashraf-hassan.github.io/Ashraf\\_portfolio/](https://habib-ashraf-hassan.github.io/Ashraf_portfolio/)

## Education

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Jomo Kenyatta University of Agriculture and Technology  
Computer Science Bachelor's Degree

Kiambu, Kenya  
September 2021 - November 2025

Mewa Vocational training center  
Computer Applications Certificate  
GPA: Distinction

Mombasa, Kenya  
June 2021 - August 2021

Memon Academy High  
Secondary Education KCSE  
Percentage: 81 A%

Mombasa, Kenya  
January 2017 - February 2021

Memon Academy Primary  
Primary Education KCPE  
Percentage: 413/500 A%

Mombasa, Kenya  
January 2007 - December 2016

## Experience

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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/>

J.K.U.A.T| 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.

## Skills

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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, TesseractOCR, Figma, VS code, GitHub, Render, Microsoft Azure, Ms Word, Google Colab

Databases: mySQL, MongoDB

## Main Projects

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CandidAI | Open Source

Tailwind CSS, Next.js, React.js, MongoDB

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

Where the codebase for implementing the UI and Database integration is at

<https://github.com/Habib-Ashraf-Hassan/candid-ai-app> while module that parses and extracts the relevant details from the Resume is at: <https://github.com/CandidAI-ResumeScreening/Resume-Parser-Module> the models used to build the Resume Parser module are at:

<https://github.com/CandidAI-ResumeScreening/NLP-module>

Adan Madrassah | Open Source      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 a client 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. Found at my GitHub: [https://github.com/Habib-Ashraf-Hassan/internal\\_attachment\\_project](https://github.com/Habib-Ashraf-Hassan/internal_attachment_project)

HustleHub | Open Source      HTML, CSS, Bootstrap CSS, JavaScript, PHP, SQL  
The project was to solve:  
Residents in Juja find it difficult to locate 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. Project was done collaboratively as a team and is available at:  
<https://github.com/NelsonMungai1/HUSTEHUB>

Kazi Kazini | Close Source      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.  
Project can be seen in JHUB Africa platform at: <https://kazikazini.jhubafrica.com/>

NSE-stock-regression | Open Source      Python, Streamlit, Scikit-learn  
Model built to predict Stock prices from NSE (Nairobi Stock exchange) using machine learning and deployed using streamlit. Model built available at: <https://github.com/Habib-Ashraf-Hassan/NSE-stock-regression> while the interface deployed at: <https://nse-stock-regression00appbyashraf.streamlit.app/>

Digital-Image-Processing | Open Source      Tesseract OCR, langdetect, deep\_translator, Pillow  
Project done on the unit of Digital Image processing, 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. Project can be seen at: <https://ics2412-digital-image-processing-ashraf-hassan.streamlit.app/>

## Certifications

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- 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 - HackerRank