

MAFABI HUSSEIN

Backend-Leaning Full-Stack Software Engineer

Email: husseintech256@gmail.com

Phone: +256 760 305 803

GitHub: github.com/Hussein-dev256

PROFESSIONAL SUMMARY

Backend-leaning Full-Stack Software Engineer with hands-on experience building production-ready web and mobile applications. Strong background in backend development, RESTful API design, and relational databases using JavaScript, TypeScript, and Python frameworks. Experienced in system architecture, scalable backend systems, and applied image recognition solutions, including performance-conscious image processing and on-device inference. Proven ability to deliver reliable, maintainable software across the full development lifecycle.

TECHNICAL SKILLS

Backend & Full-Stack Development

Node.js, NestJS, Express.js, FastAPI, JavaScript, TypeScript, Python, React, Next.js, HTML, CSS

Databases & Data Management

PostgreSQL, Supabase, RESTful APIs, relational database design, RDBMS principles, SQL

System Design & Engineering

Backend architecture, API design, system design fundamentals, Git, GitHub, version control, basic DevOps practices, deployment workflows

Applied AI & Image Processing

AI-powered image recognition, computer vision systems, image processing with C++, on-device inference optimization

Academic & Project-Based Experience

C++, Kotlin, Android mobile application development

PROFESSIONAL EXPERIENCE

Freelance Software Developer

2022 – Present

- Designed and developed full-stack web and mobile applications for businesses, organizations, and individual clients.
- Built scalable backend systems using Node.js, NestJS, PostgreSQL, and Supabase.
- Implemented RESTful APIs with authentication, authorization, and data validation.

- Delivered production-ready solutions including ecommerce platforms, APIs, automation systems, and progressive web applications (PWAs).
 - Managed projects end-to-end, including system design, development, testing, deployment, and maintenance.
 - Collaborated with clients to translate business requirements into technical solutions that deliver measurable value.
-

Data Annotator

Samasource Uganda Ltd, Gulu

July 2021 – November 2021

- Annotated and cleaned datasets for machine learning and computer vision applications.
 - Ensured data accuracy and quality to support reliable AI model training.
 - Followed structured data pipelines and quality assurance processes in a production environment.
-

PROJECTS

ObjectID – Android Mobile Application

- Developed an image identification mobile application as an academic project.
- Implemented Region of Interest (ROI) image processing techniques for efficient inference.
- Optimized image processing pipelines for performance on mobile devices.

Oakley Store – Ecommerce Progressive Web Application (PWA)

- Built a full-featured ecommerce platform with product catalog, shopping cart, and checkout workflows.
- Implemented role-based access for vendors and customers across separate PWAs.
- Integrated backend APIs and database-driven business logic.

Visual AI – Image Recognition System

- Designed and implemented an image recognition API supporting on-device inference.
- Focused on performance optimization, efficiency, and offline-friendly operation.
- Released as an open-source project.

Professional Websites

- Designed and deployed responsive, performance-optimized websites for organizations and personal brands.
- Applied modern frontend best practices and SEO-friendly structures.

EDUCATION

Bachelor of Science in Computer Science

Kampala International University

2022 – 2025

Higher Education Access Certificate (Mathematics and Chemistry)

Gulu University

2020 – 2021

CERTIFICATIONS

Certificate in Database Management Systems

Great Learning (Online)

Certificate in Data Science Foundations

Great Learning (Online)

SOFT SKILLS

Problem solving and analytical thinking

Clear technical and non-technical communication

Strong ownership and accountability

Ability to translate business requirements into technical solutions

Adaptability and continuous learning

AVAILABILITY

Open to freelance, contract, and full-time opportunities.