

**Mafabi Hussein**

**Software Engineer**

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### **PROFESSIONAL SUMMARY**

Results-driven Software Engineer with 3 years of experience designing and building reliable, scalable and user-focused digital systems. Strong background in full-stack web development, backend architecture and mobile applications, with hands-on experience across modern JavaScript ecosystems, databases, and AI-powered solutions.

### **TECHNICAL SKILLS**

**Programming & Frameworks:** HTML, CSS, JavaScript, TypeScript, React, Next.js, Node.js, NestJS, Express.js, FastAPI, Python, C++, Kotlin (Android)

**Databases & Backend:** PostgreSQL, Supabase, REST APIs, RDBMS principles

**Tools & Engineering Practices:** Git & GitHub, version control, basic DevOps, API design, system architecture

**Specialized Experience:** Image processing (C++), AI-powered image recognition, on-device inference systems

### **PROFESSIONAL EXPERIENCE**

#### **Freelance Software Developer**

2022 – Present

- Design and develop full-stack web and mobile applications for businesses, organizations and individuals.
- Build scalable backend systems using Node.js, NestJS, PostgreSQL and Supabase.
- Deliver production-ready solutions including ecommerce platforms, APIs, automation systems and PWAs.
- Work closely with clients to understand requirements, propose solutions and deliver measurable business value.

#### **Data Annotator**

##### **Samasource Uganda Ltd, Gulu · July 2021 – November 2021**

- Performed data annotation and cleaning for machine learning and AI model training.
- Ensured high data quality and accuracy for computer vision datasets.
- Gained practical exposure to real-world AI workflows and data pipelines.

## **KEY PROJECTS**

- **ObjectID – Android Mobile Application**

Image identification app using Region of Interest (ROI) processing, built for efficient inference and optimized performance on mobile devices.

- **Oakley Store – Full Ecommerce PWA**

Complete online shopping system with product listings, cart, and checkout, including separate vendor and client PWAs with role-based functionality.

- **Visual AI API – Open-Source Image Identification API**

AI-powered image recognition system capable of on-device inference, designed for performance, efficiency, and offline-friendly usage.

- **Websites for organizations & personal brands**

Designed and deployed multiple professional websites with modern UI, responsive layouts, and optimized performance.

## **EDUCATION**

### **Bachelor of Science in Computer Science**

Kampala International University · 2022 – 2025

### **Higher Education Access Certificate (Mathematics & Chemistry)**

Gulu University · 2020 – 2021

## **CERTIFICATIONS**

- **Certificate in Database Management Systems** – Great Learning Schools (Online)

## **SOFT SKILLS**

- Critical thinking & analytical problem solving
- Clear and professional communication
- AI-assisted development & productivity optimization
- Strong ownership & accountability
- Ability to translate business needs into technical solutions

## **AVAILABILITY**

Open to freelance work, contract opportunities, and long-term collaborations.