

## MAFABI HUSSEIN

### JavaScript Software Engineer (Backend-Focused, Full-Lifecycle Web Systems)

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## PROFESSIONAL SUMMARY

I am a JavaScript Software Engineer with strong experience across the JavaScript and TypeScript ecosystem, building reliable, production-grade web systems and apps. My work covers backend service development and API design with Node.js, Express and NestJS, as well as frontend engineering with React and Next.js, where I focus on building data-driven, maintainable user interfaces. I am comfortable owning features across the full application lifecycle, from requirement gathering through design and implementation to deployment, while keeping systems clean, well-structured, and easy to evolve. In parallel, I actively use and deepening my Python skills for backend and data-oriented applications.

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## CORE TECHNICAL EXPERTISE

The tools and technologies below reflect how I work in practice, with JavaScript as my primary engineering language and Python as a growing secondary focus.

### Primary Language

#### JavaScript / TypeScript

Deep hands-on experience building client and server-side systems, asynchronous workflows, API-driven architectures, and maintainable application code.

### JavaScript Ecosystem

- **Frontend Engineering:** React, Next.js  
Building responsive, state-driven interfaces and integrating frontend applications with backend APIs.
- **Backend Engineering:** Node.js, Express.js, NestJS  
Designing RESTful APIs, authentication and authorization flows, request validation, and modular service architectures.

### Databases & Data

- PostgreSQL, Supabase, SQL  
Relational schema design, data modeling, CRUD operations, and basic query optimization.

### Secondary Language

#### Python

- FastAPI, Django  
Used for backend services and data-driven applications; actively deepening proficiency.

## Web Foundations

- HTML, CSS  
Strong grasp of layout, responsiveness, accessibility, and standards-compliant markup.

## Tools & Engineering Practices

- Git, GitHub, version control workflows
  - Feature branching, issue tracking, basic deployment practices
  - Introductory system design and backend architecture concepts
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## PROFESSIONAL EXPERIENCE

### **Freelance Software Engineer**

**2022 – Present**

- Designed and delivered production-ready web and mobile applications using a JavaScript-first approach.
- Built backend services with Node.js, NestJS, PostgreSQL and Supabase, prioritizing clear API design, data integrity and long-term maintainability.
- Took ownership of features end to end, from backend logic and API contracts to frontend integration and final delivery.
- Implemented authentication, role-based access control and backend-driven business logic aligned with real client requirements.
- Worked closely with clients to understand problems, clarify scope and iteratively deliver practical solutions.
- Managed projects through the full development lifecycle, including requirement gathering, system design, development, testing, deployment and post-release support.

### **Data Annotator**

**Samasource Uganda Ltd – Gulu**

**July 2021 – November 2021**

- Annotated and reviewed datasets for computer vision and machine learning workflows.
  - Followed strict quality assurance guidelines to ensure data accuracy and consistency.
  - Gained exposure to production-level AI data pipelines and model support processes.
  - Developed strong attention to detail and process discipline relevant to data-driven systems.
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## SELECTED PROJECTS

### **ObjectID – Android Image Identification Application**

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- Developed an Android application enabling users to capture or upload images for object identification.
- Implemented region-of-interest (ROI) annotation to isolate specific objects within images.
- Focused on efficient image handling and performance optimization for low-end mobile devices.
- Gained practical experience with mobile constraints, image processing workflows, and API integration.

#### **Oakley Store – Ecommerce Progressive Web Application (PWA)**

- Designed backend services and implemented frontend interfaces for a multi-role ecommerce platform.
- Built APIs to manage products, orders, users, and role-based access control.
- Integrated relational databases to ensure data integrity and reliable transaction handling.
- Delivered a maintainable, scalable application structure with a focus on usability and reliability.

#### **Visual AI – Image Recognition Backend System**

- Designed and implemented a backend API using Fast API for image recognition using a MobileNetV3 TensorFlow Lite model.
- Focused on efficient image handling, performance considerations, and offline-friendly concepts.
- Documented architectural decisions and released the project as open source to demonstrate learning progression.

#### **Professional Websites**

- Designed and deployed responsive websites for businesses, organizations, and personal brands.
- Implemented frontend best practices including performance optimization, accessibility, and SEO-friendly structure.
- Delivered complete solutions from layout implementation to deployment.

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## **EDUCATION**

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

Kampala International University  
2022 – 2025

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

Gulu University  
2020 – 2021

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## CERTIFICATIONS

- Certificate in Database Management Systems – Great Learning Academy
  - Certificate in Data Science Foundations – Great Learning Academy
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## SOFT SKILLS

- Strong analytical thinking and problem-solving
  - Clear communication with technical and non-technical stakeholders
  - Ownership and accountability in task execution
  - Adaptability and commitment to continuous learning
  - Effective collaboration in team environments
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## AVAILABILITY

Open to freelance, contract and full-time JavaScript software engineering opportunities.