

# BRIAN MAGINA

Nairobi • +254 722 300 009 • brianojuk@gmail.com • github.com/MaginaBrian

## software Engineer | mechatronics Engineer

Graduate Mechatronics Engineer and Software Engineer with experience in industrial automation, PLC and SCADA systems, and full-stack web development. Proficient in Python, Flask, React, and control systems. Strong problem-solving skills with the ability to build scalable, secure, and reliable engineering and software solutions.

### WORK EXPERIENCE

#### **Agrinama** **10/2025 – Present** **Software Engineer**

- Developed and maintained full-stack web applications using React, Flask, and SQLAlchemy
- Built secure REST APIs with JWT-based authentication and role-based access control
- Designed and implemented an online radio streaming platform (Java House Radio) with admin controls, user authentication, and activity tracking
- Developed an inventory and sales management system (MyDuka) supporting merchants, admins, and clerks with inventory tracking, sales recording, and reporting
- Collaborated with cross-functional teams to translate business requirements into scalable software solutions
- Used Git and GitHub for version control and collaborative development

#### **International Energy Technik** **01/2024 – 04/2024** **Attachee**

- Developed PLC programs and SCADA system designs
- Participated in low voltage panel design and testing
- Contributed to Building Management System (BMS) design
- Supported automation and energy system projects

#### **Kenya Pipeline Company** **01/2023 – 04/2023** **Attachee**

- Maintained pipeline and pump instrumentation systems
- Monitored PLC and SCADA operations
- Calibrated gauges and measurement instruments
- Supported preventive and corrective maintenance activities

### EDUCATION

#### **Full Stack Software Development** **02/2025 – 11/2025** Moringa School

#### **Bachelor of Science in Mechatronics Engineering** **01/2019 – 01/2024** Jomo Kenyatta University of Agriculture and Technology

Second Class Honours (Lower Division)

#### **Kenya Certificate of Secondary Education** **01/2015 – 01/2018** Maranda High School

Grade: A-

## SKILLS

**Programming:** CSS, HTML, JavaScript, Python

**Frameworks & Tools:** Flask, React, SQLAlchemy, Tailwind CSS, Vite

**Automation & Control:** Control Systems, Instrumentation, PLC Programming, SCADA Systems

**Databases:** PostgreSQL, SQLite

**Authentication:** bcrypt, JWT

**Version Control:** Git, GitHub