

BRIAN MAGINA

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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

Moringa School

02/2025 – 11/2025

Bachelor of Science in Mechatronics Engineering

Jomo Kenyatta University of Agriculture and Technology

01/2019 – 01/2024

Second Class Honours (Lower Division)

Kenya Certificate of Secondary Education

Maranda High School

01/2015 – 01/2018

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