



SABIRA SSEMATA

SOFTWARE ENGINEER



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Kitumba, Fort Portal

ABOUT ME

Software Engineer and Entrepreneur with expertise in web development, IoT, and digital marketing. Skilled in HTML, CSS, JavaScript, Python, and React, I build scalable, user-friendly applications. I manage partnerships at Celestial Horizons and support UV-C LED water treatment at Aqualama by ASEI. Passionate about STEM education and community-driven innovation, I aim to build a digital business aligned with market demands in Uganda and East Africa.

EXPERIENCE

Aqualama-ASEI-Uganda

Marketing Manager

2025 - Present

- As Marketing Manager at Aqualama by ASEI, I lead digital marketing initiatives and oversee community outreach for deploying UV-C LED technology in schools and hospitals. I manage partnerships, educate communities on water safety, and ensure the successful implementation of clean water solutions. Additionally, I actively promote social media marketing strategies to expand Aqualama's reach and impact in Uganda.

STEM-ASEI Uganda

Mentor

2025 - Present

- I promote STEM education as a mentor with ASEI, delivering ASEI-designed programs that teach coding, robotics, and IoT to students in Uganda. I guide hands-on projects and inspire learners to pursue technology careers.

Celestial Horizons

Partnership manager and co-founder

2025 - Present

- As Partnership Manager at Celestial Horizons, I build and manage relationships with property owners to offer short-stay accommodation and breakfast services to travelers in Fort Portal. I oversee partnerships, marketing, and guest experiences to ensure quality hospitality.

Spark

Front-end and Back-end developer

2025 - Present

- Built and maintained a web application for food ordering and delivery using HTML, CSS, JavaScript, and React. Integrated backend APIs, implemented dynamic menus, cart management, and order tracking. Optimized database interactions and analytics to improve user engagement and platform performance. Collaborated with cross-functional teams for smooth user experiences.

EDUCATION

- Self-taught software engineer focused on web development, data analytics, and IoT, with certifications in Responsive Web Design, JavaScript Algorithms and Data Structures, and Scientific Computing with Python from freeCodeCamp. Additional expertise in Python for Data Science, Power BI dashboards, Agile methodologies, Arduino programming, and digital marketing through online courses and hands-on projects.

SKILLS

- Power BI — Data visualization, dashboards, DAX formulas, and data modeling
- Microsoft Excel — Data entry, formulas, pivot tables, charts, data analysis
- Data Analysis — Interpreting data, identifying trends, creating insights
- Python — Scripting, data analysis, automation, and backend development
- JavaScript — Dynamic web applications, interactive UI, front-end frameworks
- Web Development (HTML, CSS, JavaScript, React) — Frontend development, user interfaces, responsive design
- Responsive Web Design — Mobile-first design, cross-device compatibility
- Digital Marketing & Social Media Promotion — Campaign management, content creation, SEO, analytics
- Microsoft Word — Document creation, formatting, tables, mail merge, collaboration
- Arduino Programming & IoT Integration — Microcontroller programming, sensor integration, prototyping
- Agile — Scrum methodology, sprint planning, iterative development
- CRM (Customer Relationship Management) — Customer data management, relationship building, sales support
- Critical Thinking — Drawing insights and making data-driven decisions