

Michael Agoya

Operations Manager & Computer Science Student

Nairobi, Kenya

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Objective

Passionate Computer Science student and Operations Manager with extensive experience in system design, project management, and full-stack development for e-commerce and health tech. Seeking opportunities to lead technical projects, drive innovation, and collaborate with multidisciplinary teams to create impactful solutions.

Projects & Experience**Founder & Developer, BrightSteps***Microsoft Reactor Imagine Cup Project Submission*

- Led the development of a digital learning and therapy platform supporting children with Down syndrome.
- Integrated AI-driven therapy modules for Occupational, Physiotherapy, and Speech Therapy to support customized developmental tracking.
- Collaborated with Down Syndrome Society of Kenya (DSSK) to create a specialized curriculum and provide resources for the community.
- Designed a comprehensive system to manage personalized profiles, track milestones, and handle multiple conditions.
- Developed a calendar-based content generation system to provide continuous, targeted advice from “Expecting Parents” to “Adults.”

Founder & Developer, Confetti Auction System

- Built an auction platform enabling traders to list and sell products online, with quality inspection, feedback, and logistics management features.
- Developed unique tools such as avatar-based outfit try-ons and NLP-enabled search with AI.
- Designed customizable themes for various user demographics (children, seniors, and general users) for an inclusive experience.
- Implemented a multi-profile system with accessibility features tailored for diverse age groups.

Software Development Intern, [Code Alpha]

November 2024 – December 2024

- Assisted in API development for e-commerce platforms using Django Rest Framework.
- Integrated Stripe and Daraja API for secure and efficient payment solutions.
- Enhanced UX by optimizing shopping cart functionalities with seamless non-redirect updates.

Technical Writing Lead, DITA

- Oversaw technical documentation and knowledge management for digital transformation projects.
- Authored engaging technical content, mentoring over 100 readers on system design and digital transformation topics.

Novel Writing, Ifikie Wazazi

- Currently writing my first novel, exploring themes of cultural identity and societal change.
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Technical Skills

- **Programming Languages:** Python (Proficient), Java (Intermediate), JavaScript, SQL, C
 - **Frameworks & Libraries:** Django, Django Rest Framework, React, Streamlit
 - **Databases:** PostgreSQL, SQLite3
 - **Tools:** Git, WSL, Figma, Azure, Google Cloud
 - **Methodologies:** Agile, System Design, Lean Canvas Model
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Achievements

- **Young Scientists Kenya (YSK) 2021** – National Finalist
 - **Google Solutions Challenge** – Participant
 - **Finisher of the Standard Chartered marathon:** Completed the 42km race.
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Publications & Technical Writing

- **Medium Articles:** I have authored technical tutorials and insights on system design, networking, and e-commerce trends, reaching a wide audience.

- **Project Documentation:** Created comprehensive documentation for projects like BrightSteps, Confetti, and DITA, covering system design diagrams, user guides, and technical specifications.
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Hobbies & Interests

- **Writing:** Sharing insights on tech and system design through Medium articles.
 - **Hackathons:** Actively participate in hackathons, exploring solutions for real-world challenges.
 - **Tech for Impact:** Passionate about leveraging technology to create accessible solutions in health and education.
 - **IoT & Smart City Research:** Exploring innovative applications of IoT in urban resource management.
 - **Long-distance Running:** Marathon runner, aspiring to complete ultra-marathons..
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References

Available upon request.