

Michael Agoya

Operations Manager | Computer Science Student at Cooperative University

Nairobi, Kenya

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Objective

I am a passionate Computer Science student and an 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**

Also a Microsoft Reactor Imagine Cup Project Submission

- Collaborating with the Down Syndrome Society of Kenya (DSSK), I made a digital platform that provides a personalized pathway to achieving developmental milestones. It addresses the difficulty parents face in accessing affordable and quality professional attention. This solution makes quality therapy accessible at home, empowering parents and enhancing early intervention during these crucial developmental years. Using the data collected during these developmental years, BrightSteps uses RAG to redeliver the school curriculum in a way that is genuinely useful for these children, and hopefully reduce the numbers of those who were unfairly destined to vocational schools.

Pharmiliar

- Tracking a long illness can be difficult especially if you don't have loved ones who can help you. Hospital documents also come with a lot of legalese that don't make sense to the average mwananchi, and make even less sense to a patient who's fighting for his life, unfortunately, institutions have been caught overbilling, and making "mistakes" which could get expensive.
- By predicting your medical expenses, keeping track of your receipts and procedures, Pharmiliar hopes to make your journey to recovery a little bit easier and affordable.

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

- I am 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
 - Participated in the Hackathon week for Microsoft 2024.
 - **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, Pahrmlar, 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

Github: <https://github.com/toonshi>

Website: <https://toonshi.github.io/Mike-Agoya>