

Peter Ngugi Mbugua

Machine Learning / UI/UX Designer / Backend Engineer
Nairobi/Kenya

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EDUCATION

Multimedia University of Kenya (Graduated in October 2025)

Bachelor of Science in Information Technology

Relevant Course Work: Data Structures and Algorithms, Software Engineering, Database Systems, Object-Oriented Programming, Web Design, Principles of Marketing, Human-Computer Interaction, and Introduction to AI.

PROFESSIONAL CERTIFICATION

CyberSecurity Professional Certificate (IBM)

IBM Data Science Professional Certificate (5th Module- Coursera)

Google UX Design (Final Module- Coursera)

Google IT Support Certificate (2021- Coursera)

Oracle Cloud Infrastructure Foundation Associate (2025- Oracle University)

EXPERIENCE

Volunteering at Aurox Film & Technical Institute, Nairobi— *IT Strategist and Peer Tutor*, July 2025 – September 2025

- Participated in the development of the strategy for the last quarter of 2025.
- Collaborated with senior tutors in teaching computer packages, graphic design and web development courses. Started on implementing a two-year strategy plan for the years 2026 and 2027, and documenting the plan.

Internship at Abya University, Nairobi— *Backend Engineer*

May 2024 – Jan 2025

- Developed and integrated over 60% of the platform's REST APIs to enhance the functionality of university websites.
- Documented and implemented over 40% of overall smart contracts, ensuring clarity and maintainability for future developers.
- Integrated the entire student's side with Interplanetary File System (IPFS) and converted over 75% of the database into blockchain technology compliance.

Internship at RG Corporate, Kiambu— *Software Developer*

May 2023 – Aug 2023

- Collaborated with the team to refine and improve the institute's websites using WordPress tools.
- Implemented SEO enhancements, including handling of the main social media accounts and improved traction on the website, by 75% additional clicks on the website. A conversion rate was achieved by improving sales by 37% through the wallpapers.rg.co.ke domain.
- Handled the backlinks for the corporation's website, wrote over 20 articles, thereby increasing web traffic and search visibility to improve rankings and impressions by 45%.

SKILLS

- Machine learning engineering and Deep learning technologies (Professional/Advanced level)
- Backend engineering with Django (Advanced level)
- API Engineering: REST APIs and Fast APIs Engineering (Advanced level)
- UI/UX Design and Research (Advanced)

TOOLS

- Programming Languages: Python, Java, C# (Basic), SQL, C++, C
- Web Development: C++, HTML, JavaScript, ReactJS, Django, Django RestFramework
- Machine Learning Libraries: Numpy, Pandas, Seaborn, Scikit-learn, Tensorflow, Keras
- UI/UX Tools: Figma, Framer, Canva, CorelDraw
- Tools: SQL Workbench, Notion, WordPress, Power BI, Docker, ClickUp

LEADERSHIP AND ACTIVITIES

Lead Technical Writer: Produced over 20 articles focused on emerging IT trends and data science methodologies. Increased community engagement by 30% through consistent content delivery and thought leadership.

LANGUAGES

English / Kiswahili

PROJECTS

Comrade — <https://play.google.com/store/apps/details?id=com.wid.comrade>
Abya-LMS— <https://abyauniversity.com/>
Rhema — <https://rg.ke/> , <https://college.rhema.co.ke/>, <https://webdesign.rhema.co.ke/> , <https://wallpapers.rg.ke/shop/>
Comrade UI/UX — <https://framer.com/projects/Comrade--tJLzYIodLUhSGEJVf2cd-7E0cY>
U-Restuarant — <https://www.figma.com/design/e7ZqyYInfSbznXWY4QnfVJ/U-restaurant-hi-fi?node-id=0-1&t=YV63Z3tYzkLBj7Un-1>
Aga Khan ML — <https://framer.com/projects/Untitled--iUHFHdfTXFtXAwcagaeL-9U6p2>, <https://github.com/Cerion73/AgaKhan-diagnostic-system>