KABAIKU
MBUTHIA

Software Engineer

About Me

I am Kabaiku Mbuthia, a final-year Analytical Chemistry student at Mount Kenya University, currently expanding my skills in Software Engineering through the Power Learn Project. With a strong background in chemical analysis, lab techniques, and data interpretation, I bring precision and critical thinking to both scientific and tech-based problem solving. My coding journey is driven by a passion for innovation where science meets technology. I'm especially interested in areas like data-driven research, scientific software, LIMS, and lab automation. My goal is to integrate analytical chemistry and software development to solve real-world problems and drive interdisciplinary advancement.

Skills:

Graphic Design	90%
Databases: MySQL, PostgreSQL	87%
Version Control: Git & GitHub	95%
Web Development: HTML, CSS	84%
Project Management	92%

Education:

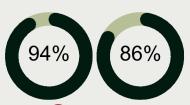**Bachelor of Science in Analytical Chemistry**
Mount Kenya University
(2021- now)
Software Engineering
Power Learn Project Academy
(8th June 2025-now)
2016 - 2020

Language:

English   kiswahili

94%   86%

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Professional Experience:

Analytical Chemistry Trainee

Mount Kenya University
Jan 2021 – Present

- Gained hands-on experience in chemical analysis techniques, including titration, chromatography, spectroscopy, and gravimetric analysis
- Conducted sample preparation, laboratory testing, and data interpretation under academic supervision
- Applied precision, critical thinking, and method validation in lab practicals and student-led experiments
- Worked on environmental and industrial sample analysis as part of university projects
- Collaborated with lab partners to ensure adherence to safety protocols and standard operating procedures (SOPs)

Software Engineering Trainee

Power Learn Project (PLP) Remote
Jan 2024 – Present

- Developing responsive web applications using HTML, CSS, JavaScript, and Python
- Built CRUD-based systems, including a school management portal and a club registration system
- Gained proficiency in version control using Git & GitHub, and agile project collaboration tools
- Integrated MySQL databases for backend data storage and retrieval
- Participating in real-world coding challenges, pair programming, and project-based learning with a focus on clean, maintainable code
- Exploring areas of synergy between chemistry and software through potential applications like Lab Information Management Systems (LIMS)