

Adeline Makokha

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PROFESSIONAL SUMMARY

Experienced software quality engineer transitioning into data science and machine learning. I am skilled in developing and implementing quality control procedures, defect resolution, API testing, and test automation. Proficient in Agile methodologies, statistical modeling, and cloud computing (AWS), with a strong focus on driving efficiency through automation. Passionate about applying machine learning and analytics to solve complex problems, with hands-on experience in data science tools and technologies. Adapt at working in fast-paced environments, collaborating with cross-functional teams, and mentoring junior team members.

TECHNICAL SKILLS

- **Data Science Tools:** Python, Jupyter Notebooks, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, SQL.
- **Machine Learning:** Regression, Classification, Clustering, Decision Trees, Random Forest, Neural Networks.
- **Cloud Computing:** AWS (EC2, S3, Lambda, SageMaker), AWS Certified Solutions Architect Associate.
- **DevOps:** Jenkins, CI/CD pipelines, Docker, Test Automation.
- **Agile Tools:** Jira, Confluence.
- **Testing Tools:** Postman (API testing), Selenium, JUnit, PyTest.
- **Version Control:** Git, GitHub.

PROFESSIONAL EXPERIENCE

Software Development Engineer in Test

Safaricom PLC (March 2023 - Present)

- Led end-to-end testing, reporting, and defect management across complex systems, reducing software testing time by 50% through test automation.
- Implemented test automation frameworks for mobile, API, web, and desktop applications, improving overall test efficiency.
- Integrated test automation suites within CI/CD pipelines, facilitating seamless DevOps processes and accelerating releases.
- Developed detailed test plans and ensured 80% automation coverage for regression tests.
- Conducted performance tests, validating system performance against key metrics.

- Played a pivotal role in transforming testing practices within Agile squads, advocating for test-driven development.

Software Tester Intern

Safaricom PLC (February 2022 - February 2023)

- Conducted manual testing on Safaricom Ethiopia's Mpesa platform, creating test cases for USSD, STK, and web applications.
- Collaborated with cross-functional teams to communicate testing scope, progress, and outcomes.
- Worked in an Agile environment, gaining practical experience in methodologies and best practices.
- Developed recommendations for improving software quality based on testing insights.

IT Support Intern

Postal Corporation of Kenya (January 2021 - March 2021)

- Provided technical support and managed IT infrastructure, ensuring seamless network operations.
- Spearheaded the deployment of an online queuing system, improving efficiency and customer service.

EDUCATION

MSc. Data Science and Analytics

Strathmore University, Kenya (2024-2026)

- Focused on optimizing data science algorithms and becoming a data science researcher.
- Gained expertise in computational models, data transformation, and deriving insights from data.
- Key courses: Optimization for Data Science, Bayesian Statistics.

BSc. Telecommunication and Information Technology

Machakos University, Kenya (2017-2021)

- Specialized in networking, cloud computing, broadcasting, and satellite communications.
- Proficient in programming languages such as Python, C++, and C#.
- Final project: Developed a QR-based Library Management System.

CERTIFICATIONS

- 2024 Safaricom Group CEO Awards
- Certificate of participant Hackathon -Vocadom

- Data Engineering with AWS
- AWS Certified Solutions Architect Associate
- AWS Certified Cloud Practitioner
- Scrum Fundamentals Certified
- AWS re/Start Graduate

ACHIEVEMENTS

Safaricom Group CEO Awards (2024)

- Recognized for outstanding contributions to the Ofa Moto project and Shine Kenya initiative, both aimed at driving social impact and innovation.

International Speaker (2024)

- Delivered a keynote at the Women in Tech User Group event in Nepal, sharing insights on technology and community leadership.
- Presented in over 15 local and international forums, focusing on topics such as cloud computing, innovation, digital inclusion, and community-driven development.

Traffic Congestion Analysis (2024)

- Performed exploratory data analysis on traffic data to identify patterns in congestion.
- Developed machine learning models to predict traffic flow and provide actionable insights for urban planners.

AWS Development Centre Kenya Launch (2023)

- I was given a chance to share my story during the Amazon Development Centre Kenya Launch event as an alumni of Azubi Africa and the growth impact brought by the AWS UserGroup Kenya community.

International Women's Day (2023)

- AWS featured my story to celebrate International Women's Day epitomizing the theme of year's IWD 'Embracing Equity'.

Lipa Kodi (*Vodacom Fintech Hackathon 2023*)

- Developed an innovative web-based platform for landlords to track revenue and occupancy.
- Won recognition for addressing key challenges in the rental market.

Event Wallet (*Safaricom Fintech Hackathon 2022*)

- Pitched a solution to manage event finances, improving budgeting and planning for personal and corporate events.

COMMUNITY INVOLVEMENT**AWS Hero** (June 2025 – Present)

- Being part of a recognized global community of Amazon Web Services (AWS) experts who are passionate about sharing their knowledge and expertise with others.
- I am committed to contributing significantly to the AWS community through content creation, open-source projects, events, and mentorship, regardless of my employer.

AWS User Group Kenya Lead (November 2021 - Present)

- Organized AWS Community Day Kenya 2024, showcasing innovations and fostering collaboration.
- Engaged with the AWS community to share knowledge, promote cloud adoption, and drive professional growth.

AWS Community Builder Member (*October 2021 - Present*)

- Active contributor, sharing technical knowledge and fostering a collaborative learning environment for AWS enthusiasts.

ADDITIONAL INFORMATION

- **Interests:** Data science research, hiking, traveling.
- **Soft Skills:** Analytical thinking, problem-solving, mentoring, teamwork, communication.
- **Languages:** Python, SQL, C++, C#.

REFERENCES

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