

DAVID IGUTA NDUNG'U

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EDUCATION

- **Master of Science, Applied Data Science** | *Indiana University, Indianapolis* | Sep 2024 - Dec 2025
Relevant Course Work: Data Analytics, Machine Learning, Deep Learning, Data Mining, Data Visualization, Cloud Computing
- **Bachelor of Science, Electrical and Electronics Engineering** | *University of Nairobi* | May 2016 - Sep 2021

WORK EXPERIENCE

Software Development Engineer in Test (SDET) | *Safaricom PLC* | Nov 2022 - Aug 2024

- Executed 500+ test cases and automated 200 + regression tests, reducing testing time by 40%.
- Led a team of 10 Quality Engineers in coming up with a security framework for validating security aspect of automated test scripts.
- Developed performance and load tests using JMeter; validated SLAs and identified bottlenecks.
- Built Python and SQL-based scripts for API testing and data validation in ETL workflows.
- Collaborated with developers and product owners in Agile/Scrum to ensure robust test coverage and compliance.

Teaching Assistant | *Indiana University, Indianapolis* | Jan 2025 - Apr 2025

- Guided 30+ undergraduate students in mathematics and logical reasoning for data science coursework.
- Held weekly 1-on-1 sessions to support students on complex problem-solving, improving understanding of key concepts.

PROJECTS

Mobile Wallet System Testing (MPESA – Ethiopia Deployment) – *Safaricom PLC* <https://m-pesa.safaricom.et/>

- Led a QA team of 50 testers in conducting functional and regression testing on MPESA, a mobile money platform serving millions in Ethiopia.
- Started with manual test case execution, then transitioned to automated testing with **Robot Framework**, cutting testing time by 50%+.
- Delivered a successful system launch, ensuring reliability and scalability in a high-volume financial services environment.

Customer Portal Testing & Deployment (Safaricom PLC – Domains & Hosting Service)

<https://domains.safaricom.co.ke/>

- Maintained and enhanced testing for a **customer-facing portal** supporting domain and hosting services for Kenyan tech innovators.
- Part of **the first squad at Safaricom to implement blue-green deployment**, ensuring seamless updates with zero downtime.
- Ensured **test suites were continuously updated in CI/CD pipelines**, supporting frequent and reliable releases aligned with Agile practices.
- Collaborated across development and DevOps teams to deliver a stable, production-ready customer experience.

SKILLS

- **Testing & QA:** JMeter, Selenium, Cypress (basic), API Testing, Performance Testing, Regression, Agile/Scrum | **Programming & Data:** Python, SQL, R, Pandas, Numpy | **Cloud & ETL:** AWS Glue, SageMaker, Lambda, Redshift | **Visualization & Reporting:** Power BI, Tableau, Matplotlib, Seaborn | **Databases:** MySQL, PostgreSQL, MongoDB, NoSQL | **Other:** Git/GitHub, Docker, Jira, CI/CD fundamentals

CERTIFICATIONS

- **AWS Data Engineering Associate** – Mar 2025
- **ISTQB Certified Tester – Foundation Level (CTFL)** – Mar 2023
- **Deep Learning with PyTorch (Udemy)** – Aug 2025
- **AWS Cloud Practitioner** – Aug 2023