

PERSONAL INFORMATION

Dushime Mudahera Richard

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Summary

I'm a data scientist and software engineer pursuing an M.Sc. in Data Science, with interests in machine learning, distributed systems, cloud computing, and AI safety. I'm currently completing an internship focused on Kubernetes and multi-cluster orchestration, evaluating tools and approaches for managing and coordinating multiple Kubernetes clusters. I believe advanced AI should be developed carefully and for the benefit of humanity, and I want to contribute to reliable, trustworthy systems through research and open source. I'm an active contributor to the open science and research software engineering community through FORRT (Framework for Open and Reproducible Research Training).

WORK EXPERIENCE

Jun 2024 – Dec 2024

External Consultant (Research Software)

Talarify, South Africa / Remote

Contributed to RSSE Africa operations by organizing international events, newsletters, and community meetups.

2024

Student Intern Organiser / Python Developer

WEHI Research Computing Platform, Remote

Built web applications to streamline the Research Software Engineer (RSE) Internship program.

Jan 2024 – Apr 2024

Fellow

BTrust Builders, Remote

Completed a fellowship focused on Bitcoin protocol development; built a banking backend and transaction builder using Rust.

Sep 2023 – Present

Founder & Mentor

Thinkpro Tech, Remote

Founded a tech mentorship initiative guiding aspiring developers in software engineering and open source.

2021 – Present

Open Source Developer

Open Source Contributor, Remote

Contributor to various open-source projects, including documentation and feature development.

Aug 2019 – Mar 2022

Information Technology Support

Bugema University, Kampala, Uganda

Managed lab infrastructure, troubleshooting, and assisted students and staff in IT labs.

Feb 2022 – Mar 2022 **Hackathon Judge**

Learn for Cause Women of Code Hackathon, Remote / India
Judged tech solutions during the WOCODE Hackathon.

COMMUNITY LEADERSHIP & OPEN SCIENCE

Dec 2023 – Present **Lead, Website Team & OS Contributor**

Framework for Open and Reproducible Research Training (FORRT), Remote
Managing web infrastructure and contributing research software to integrate reproducible research training into higher education.

Mar 2024 – Mar 2025 **Secretary**

RSE Asia Australia Unconference, Australia / Remote
Coordinated committee operations, event documentation, and administered scholarships for the Asia and Australia Research Software Engineering community.

2024 **Open Source Contributor**

The Turing Way, Remote
Contributing to the community-driven handbook for reproducible, ethical, and collaborative data science.

Aug 2023 – 2024 **Cohort Facilitator (OLS-8) / Project Lead (OLS-7)**

Open Life Science (OLS), Remote
Facilitated open-source mentorship for cohort participants and led an OLS-7 project promoting open science practices.

June 2023 – June 2025 **Volunteer**

Volunteer For Peace (VPeace), Kampala, Uganda
Mentored refugee youth and women through entrepreneurship, education, and community dialogues.

Aug 2021 – Nov 2024 **GDSC Lead / GDG Organiser / Explore ML Facilitator**

Google Developer Communities, Kampala, Uganda / Remote
Led developer communities across three Google programs, organizing workshops, ML study groups, and hands-on project sessions.

Feb 2021 – Feb 2022 **Deputy Speaker and Member of Parliament**

Bugema University Students Guild, Kampala, Uganda
Led the Students Parliament business committee and represented student interests.

2021 – Present **Co-Founder**

Bluebird Soccer Academy, Kampala, Uganda
Co-founded a youth soccer academy promoting sports, discipline, and community development.

EDUCATION AND TRAINING

Oct 2025 – Feb 2026 **Erasmus+ Exchange (M.Sc. Data Science)**

ISCED 7

Univerza na Primorskem, Koper, Slovenia
International exchange semester as part of the M.Sc. in Data Science program.

Sep 2024 – Present **M.Sc. in Data Science** ISCED 7
University of Messina, Italy
– Coursework in statistics, machine learning, and data engineering.
– Focus on research software engineering and applied machine learning.

Aug 2018 – Nov 2022 **B.Sc. in Business Information Systems** ISCED 6
Bugema University, Kampala, Uganda
– First Class Honours.
– Thesis: “Class Attendance by Facial Recognition for the School of Sciences and Technology.”
– Relevant coursework: System Analysis & Design, Project Management, Object-Oriented Programming.

PERSONAL SKILLS

Mother tongue Swahili

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	C1	C2
French	C1	C2	C1	C1	C2
Swahili	C2	C2	C2	C2	C2
Italian	B1	B1	B1	B1	B1

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Technical Skills
– Languages: Python, SQL, JavaScript, PHP, Solidity.
– Frameworks: Django, Flask, Keras, TensorFlow, Bootstrap.
– Web3 & Blockchain: Smart Contracts, Blockchain Development.
– Tools: Docker, Git/GitHub/GitLab, PostgreSQL, Linux, Kubernetes.

ADDITIONAL INFORMATION

Areas of interests Distributed Systems; Edge-Cloud Computing; Machine Learning and AI Safety.

Publications
– Sobolak, R., Skubera, M., Azevedo, F., Mathy, A., Surendran, A. M., Gjoneska, B., ..., **Mudahera, D. R.**, ... & Evans, T. R. (2026, March 31). *Opportunities for Feedback Across the Research Cycle: Quantitative Findings of a Global Transdisciplinary Survey*. MetaArXiv. osf.io/preprints/metaarxiv/2jasm_v1.
– Azevedo, F., ... & **Mudahera, D. R.** (2025). *How to Develop and Use Open Educational Resources*. EdArXiv. DOI: 10.35542/osf.io/sn693_v1.
– Van Heusden, P., Grobbelaar, M., & **Dushime, M. R.** (2024). *The Research Software & Systems Community in Africa*. Zenodo. DOI: 10.5281/zenodo.12515927.
– **Mudahera, D. R.**, & Mosbergen, R. (2024). *Empowering Refugee Communities: A Practical Guide to Diversity, Equity, and Inclusion*. Figshare. DOI: 10.6084/m9.figshare.25442197.v1.
– **Mudahera, D. R.** (2019). “Electronic Library System and Library Service Delivery in Bugema University, Uganda.” Presented at Bugema University Academic Symposium.

- Training and certifications
- Explainable Machine Learning (XAI) (Duke University, Coursera) - Aug 2026.
 - Crash Course on Python (Google, Coursera) - Aug 2026.
 - Interpretable Machine Learning (Duke University, Coursera) - Aug 2026.
 - AWS Cloud Practitioner Essentials (AWS Training & Certification) - May 2026.
 - AWS ML Engineer Associate Curriculum Overview (AWS Training & Certification) - May 2026.
 - Make Replication Count Hackathon 2025 (University of Münster, Germany) - Oct 21 – 26, 2025.
 - Hack4Future Sicily 2025 (Open Data Playground) - May 3 – 21, 2025.
 - Bitcoin Protocol Development (Qala-Africa) - May – June 2023.
 - Cyber Stars Hackathon (Uganda Communications Commission) - June 2022.
 - Cyber Operations Security (Cyber Ops) (Bugema University) - Feb – March 2022.
 - Cisco Networking Academy (IT Essentials & Networking) - Oct – Dec 2021.