Simon Pierre Ndizihiwe

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EDUCATION

Carnegie Mellon Unoversity Africa — Kigali, RW
Master of Science in Information Technology — *Aug. 2023 – May 2025*

University of Rwanda — Kigali, RW
Bachelor of Science in Information Technology — *Sept. 2018 – Nov 2023*

EXPERIENCE

Graduate Teaching Assistant — Aug. 2024 – May 2025
Carnegie Mellon University Africa — *Kigali, RW*
- Assisted in teaching and mentoring students in three courses, *Data Inference and Applied Machine Learning*, *Data Analytics*, and *Big Data Science*
- Led recitation sessions and provided one-on-one support for students working on data-driven projects.
- Designed and graded assignments involving data visualization, statistical modeling, and business intelligence tools.
- Collaborated with faculty to improve course structure and materials, ensuring practical applications of data analysis.

Mobile Developer Intern — May 2024 – Aug. 2024
Punda Group Ltd — *Kigali, RW*
- Designed and developed the Izitini Mobile App and integrated with APIs.
- Developed APIs for ease integration with the mobile app.
- Deployed the app to the Play Store, ensuring smooth operation and user experience.

Graduate Research Assistant — Jan 2024 – May 2024
Carnegie Mellon University Africa — *Kigali, RW*
- Analysis of the data coming from API and visualization on the *EdTech* project dashboard.
- Working with supervisor to draw insights from data and make necessary decisions.
- System and Unit testing of the project.
- Documentation of the system and weekly report with data analysis and insights.

PROJECTS

Satellite Imagery for Urban Growth (Research) | *Python, ArcGIS* — Jan 2025 – May 2025
- Conducted research on urban growth analysis using satellite imagery.
- Utilized NASA/NOAA Nightlights Data and Google Earth Engine to analyze urban expansion trends.
- Investigated the correlation between nightlight intensity, population density and road network.

SKILLS

Languages: Python, C/C++, SQL (PostgreSQL)
Libraries/Frameworks: pandas, NumPy, Matplotlib, Flutter, FastAPI
Data Analytics: Data Wrangling, EDA, Statistical Inference, Predictive Modeling, Machine Learning (Supervised & Unsupervised, incl. Regression & Classification)
Tools: Git, Docker, VS Code, Power BI, ArcGIS
Soft Skills: Problem-solving, Communication, Teamwork, Mentorship

ACHIEVEMENTS

- Selected as a Graduate Teaching Assistant for *Data Inference and Applied Machine Learning (DIAML)*, *Data Analytics (DA)*, and *Big Data Science (BDS)* at Carnegie Mellon University Africa.

- Recipient of the *Principal's Roll of Honor* for outstanding academic performance (2021–2022), University of Rwanda.