Carnegie Mellon University
Africa

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SUMMARY

I recently earned a Master of Science in Information Technology from Carnegie Mellon University, where I built a strong foundation in IT and data-driven problem solving. I specialize in databases, data analysis, focusing on extracting actionable insights from complex datasets to support strategic decision-making. With an entrepreneurial mindset, I am passionate about exploring the intersection of Data Science and Entrepreneurship to develop innovative IT solutions that address real-world challenges and create lasting impact.

EDUCATION

Master of Science in Information Technology *Carnegie Mellon University* Specializations: Data Science, IT Entrepreneurship GPA: 3.49/4	08/2023-05/2025
Bachelor of Science in Information Technology *University of Rwanda (UR-CST)* Specializations: Information Technology Qualification: Second Class Honours/ Upper Division	11/2018-10/2023

PROFESSIONAL EXPERIENCE

Lecturer, (IT Faculty) *Adventist University of Central Africa (AUCA) – (Gishushu And Masoro Campus)* - Teach courses in Data-related fields, Databases, and Introductory Computer Applications**.** - Design course materials, assignments, and grading rubrics to align with learning outcomes. - Provide academic mentorship and foster critical thinking among students. - Incorporate modern tools and eLearning technologies to enhance classroom engagement.	09/2025-Present

Graduate Teaching Assistant **Two courses: - Mobile Big Data Analytics and Management** - **Advanced Academic Skills for engineers** *Carnegie Mellon University Africa, Kigali, Rwanda* • Assist technically the instructor in preparing and delivering workshops. • Respond to student concerns and queries during workshop sessions. • Prepare and grade assignments, offering solutions and detailed feedback. • Hold office hours to support students with exercises and further questions.	09/2024-05/2025
Data Manager and Marketing Officer *Rwema Hub, Kigali, Rwanda* • Oversee all data management activities, including data collection, organization, and analysis, to inform strategic decisions in car rentals, sales, and shipping services. • Coordinate marketing initiatives to boost brand visibility and customer engagement through digital channels and targeted campaigns. • Lead a cross-functional team in executing data-driven strategies, providing technical guidance and training to ensure accuracy and efficiency in data handling. • Manage client relations by offering insights on market trends and identifying customer needs to align marketing efforts with service demands.	01/2024-Present (Part Time)

Digital Marketer and Data Analytics Expert *Tulivu Home Solutions, Kigali, Rwanda* • Managed data flow into Tulivu's online platform, including candidate and employee account creation. • Retrieved and verified data from the platform to ensure accuracy and completeness. • Analyzed visitor engagement on social media to evaluate the success of marketing campaigns. • Provided data analysis from the platform to support decision-making for various projects.	05/2024-09/2024
PROJECT WORK	

Task Management App for Logistics Companies (Ongoing) **Role**: Product Innovator and Entrepreneur *2024 – East Africa* • **Objective**: Developing a task management app to streamline operations in logistics companies, connecting sourcing teams and workers to improve task tracking from start to delivery. • **Key Contributions**: Focused on product innovation, developing the Lean Canvas, and conducting presentations. Leveraged data to inform design decisions and optimize functionality. • **Outcome**: In progress—key project milestones include defining user personas, creating a prototype, and preparing for stakeholder presentations.	2024- Now Entrepreneurial Final Project
Customer Segmentation and Classification Using ML **Role**: Data Scientist *2023 – CMU-Africa* • **Objective**: Clustered customer data to identify segments and built a classification model to assign customers to relevant segments for targeted credit card offerings. • **Key Technologies**: Python, Scikit-learn, Pandas. • **Key Contributions**: Clustered customer data using machine learning techniques, labeled customer segments, and deployed a classification model to help a credit card issuer deliver personalized services. • **Outcome**: Ensured accurate identification of customer segments, helping the client push relevant products and services, increasing customer engagement and satisfaction.	12/2023 Final Project in **Programming for Data analytics course**
Smart Water Meter IoT Solution **Role**: Team Lead *2023 – Bachelor's Final Year Project* • **Objective**: Developed a smart water meter for the Rwanda Energy Group (REG) to replace manual water consumption measurement and billing systems with a digital solution accessible via USSD. • **Key Contributions**: Led the project, ensuring the design and implementation of an IoT solution to automate water metering, billing, and user access. Oversaw project milestones and coordinated between	2023 Bachelors' Final Project

team members. • **Outcome**: Provided REG with a proof of concept that demonstrated the potential for greater accuracy and convenience in water usage management.	

Correctional Facility Visitation Scheduler	2023

Role: Front-End Developer
2023 – Solvit Africa

- **Objective**: Built a scheduling platform to automate and manage visitations at correctional facilities, reducing manual oversight.
- **Key Technologies**: React JS, Tailwind CSS.
- **Key Contributions**: Designed and implemented the front-end interface, ensuring a smooth user experience with a responsive and visually appealing layout.
- **Outcome**: Successfully developed a functional prototype, providing correctional facilities with a more efficient visitation scheduling system.

SKILLS & CERTIFICATIONS

Programming Frameworks & Tools:

- Pandas, NumPy, Scikit-learn

Programming Languages:

- Python, MySQL, JavaScript, HTML/CSS

Data Analytics & Visualization:

- Python,SQL, Power BI , Excel

Machine Learning & Data Science:

- Data Preprocessing, Feature Engineering, Clustering, Classification, Regression, Natural Language Processing (NLP)

Entrepreneurial & Product Development Skills:

- Lean Canvas, User Persona Development, Product Innovation, Market Research, Strategic Planning, Customer Discovery

Certifications:

- Google Advanced Data Analytics Professional Certificate (in progress)
- IBM Fullstack Web Development
- Meta Front-End Development (in progress)
- SQL For Data Science

INTERESTS & ACHIEVEMENTS

- Achievements: HEC Scholar, Carnegie Mellon University Graduate Student.
- Interests: Entrepreneurship, Data Science, Machine Learning, Software Engineering