Jean de Dieu UWINTWALI

Kigali - Rwanda | uwintwali.umd@gmail.com | +250790524877 | Github | Linkedin | Portfolio | Blogs | DataCamp

ABOUT ME

A self-motivated and passionate Computer and Software Engineering student with a strong focus on Artificial Intelligence and Data Science. Currently training in Data Science at Blossom Academy and completing a final year in Computer and Software Engineering at the University of Rwanda. Driven by a strong understanding of mathematical theories and strong desire to master advanced data skills to build AI systems that impact thousands with high accuracy and precision. I have a solid foundation in software development, IoT Technologies, Data Analytics skills and I am eager to engage in academic research.

EDUCATION

University of Rwanda, CST | *Bachelor of Computer and*

Software Engineering   **Kigali, Rwanda** | *May 2022 – June 2026*

- Grade: Second Class Upper, GPA: 4.2 / 5
- Relevant Modules:
  Mathematics for Engineers I - IV, Database Systems, Linear Differential Equations and Transforms, Data Structures and Algorithms, Computer Networks, Programming Languages, Operating Systems, Computer Organizations, Professional Computer Ethics, Software Requirements Engineering, Software Architecture and Design, Software Project Management

Blossom Academy | *Data Science Program*   **Kigali, Rwanda** | *Aug 2025 – Feb 2026*

- Cleaning datasets to find meaningful patterns and create visualizations
- Building machine learning models to predict customer behavior and forecast sales
- Writing SQL queries to extract and analyze data from multiple sources
- Conducting A/B tests to measure the impact of product and marketing changes
- Communicating technical data findings to non-technical audiences

ES Nyarutovu | *High School Diploma*   **Gakenke, Rwanda** | *Jan 2018 - Jul 2021*

- Studied Mathematics, Computer Science, and Economics
- First Division, Score: 73/73
- Media Club President (2019–2021): Led the club's multimedia initiatives, promoting integrity, creativity, and student engagement through journalism, photography, videography, and digital storytelling.

SKILLS

Technical Skills: C, C++, Python, Pandas, NumPy, Matplotlib, Seaborn, Scikit Learn, SQL, JavaScript, Java, Dart, Flutter, HTML/CSS; Django, React, Next.js; Node, Express, REST APIs; PostgreSQL, MySQL, MongoDB, Pinecone; Power BI, Git, GitHub, postman, Docker, Firebase; Arduino, ESP32, LoRa WAN, Sensor Integration

Soft Skills: Communication, Team Collaboration, Time Management, Critical Thinking & Problem-Solving

EXPERIENCE

Ministry of Justice | *Software Developer Intern*   **Gasobo, Kigali** | *March 24 - May 23, 2025*

- Enhanced Rwanda's UPR LC (Universal Periodic Review Local Consultation) system, a national platform coordinating human rights reporting for the UN, by implementing key reporter permissions, debugging the Django backend, and performing code reviews to the system supporting 72+ institutions for reliable human rights coordination.

Web Stack Academy | *Software Developer Intern*   **karnataka, Bangalore |** Sep 03 - Nov 20, 2025

- Developed HomelyHub, a full-stack MERN booking platform, by architecting secure user authentication, dynamic property search, and a complete booking state management system with an intuitive React UI. certificate

LANGUAGES

Kinyarwanda	Native
English	Fluent

CERTIFICATIONS

AI Engineer for Developers Associate

DataCamp   *Oct 2025*   View

Associate Data Scientist

DataCamp   *Dec 2025*   View

Data Scientist

Blossom Academy   Anticipated certification *Feb 2026*

PROFESSIONAL DEVELOPMENT

Software Development Certificate, IoT Certification, Power BI, SQL Data Joining, Prompt Engineering with OpenAI API, Hugging Face, AI Agents, Developing AI Systems with OpenAI API, LLM Applications with LangChain, Vector Databases with Pinecone

PROJECTS

Customer Support Automation System | *Python, OpenAI API, NLP, Scikit-learn, FastAPI*
- Engineered a semantic search chatbot achieving 83% accuracy using OpenAI API embeddings and GPT-3.5 to enable automated response. Github

Medical Transcription & ICD-10 Coding System | *Python, OpenAI API, NLP, Pandas*
- Engineered an automated medical data extraction pipeline using GPT-3.5 that accurately structured clinical transcripts into analyzable JSON, reducing manual processing time by over 80% for a proof-of-concept healthcare workflow. Github

HomelyHub: Apartment & Hotel Booking Platform | *React, Node.js, MongoDB, Express*
- Built a full-stack booking platform with user authentication, property search, filters, booking feature and add property page using the MERN stack. Github

Smart Mattress with IoT & AI for Healthcare | *Next.js, PHP, PostgreSQL, Tailwind CSS*
- Engineered a smart matress system with real-time sensors to track patient's posture, temperature, breathing patterns, and heart rate, enabling automated temperature adjustments and a dashboard for caregivers to monitor sleep analytics. Github - Demo

REFERENCES

Dr. Alexandre NGENZI	**Mr. Dieudonné UKURIKIYEYEZU**	**Mr. Emmanuel NDAHIMANA**
Head of Dept., Comp. & Software Eng. UR-CST, Kigali	Assistant Lecturer, Comp. & Software Eng. UR-CST, Kigali	Data Scientist at National Bank of Rwanda, Kigali
Phone: +250 788 777 992	Phone: +250 785 684 484	Phone: +250 789 432 688
Email: a.ngenzi@ur.ac.rw	Email: ukudox@gmail.com	Email: endahimana@bnr.rw

I confirm that the information provided is accurate and true to the best of my knowledge.

Kigali, Dec 10, 2025