Angelique Uwamahoro

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EDUCATION

Carnegie Mellon University | MS Engineering Artificial Intelligence   Kigali | 08/2024 – Present

- ML, Computer Vision and Research Track
- Served as a Research Strategist in the Research Club

University of Rwanda| BSc Computer and Software Engineering   Kigali|11/2019-05/2024

- Achieved a Cumulative GPA of 3.7 out of 4.0
- Class and school representative and emerged as a Rwanda Science Competition winner

Additional:

AIMS | African Computer Vision Summer School   Kigali | 2025 Cohort

- Learned how to make a Research poster and a presentation, and my team won the hackathon
- Advanced training in computer vision techniques, deep learning, and cutting-edge CV research methodologies

University of Michigan | Python Data Structures   Remote| 2024
University of California| Santa Cruz C++ For C Programmers, Part A   Remote |2021
University of Indian School of Business | IT Project Management   Remote 2020

SKILLS

Python, C++, C, JavaScript, NodeJS, Pytorch, Tensorflow, Machine and Federated Learning, Data analytics, Statistics

Arduino, Postman, MLflow, Raspberry Pi, Zotero, Docker, MS Word, Excel,

Reading, Writing, Presentation, Communication, Problem Solving, Analytics, Leadership skills

EXPERIENCE

Carnegie Mellon University | Research Assistant Intern   06/2025 – Present

- Working on Computer Vision and Federated learning Projects
- Writing a paper, Exploring the resilient FL framework in resource constrained Environment

Carnegie Mellon University | Graduate Teaching Assistant   09/2024-10/2024

- Provided individualized guidance to improve academic performance and technical proficiency
- Organized and evaluated hands-on workshops, fostering collaborative learning among diverse student groups.

HUZALABS| AI and Data Scientist   02/2023-08/2024

- Designed machine learning models to predict key outcomes for small businesses, increasing prediction accuracy by 15%.
- Enhanced collaboration across interdisciplinary teams, fostering innovation in AI solutions for real-world problems.

JICA (Japan International Cooperation Agency) | AI and IOT Engineer   04/2022-01/2023

- Conducted extensive community problem analysis using Tankyu charts, resulting in three deployable AI prototypes for health and agriculture.
- Presented findings to stakeholders, improving understanding of AI's potential to address developmental challenges.

SOLVIT AFRICA| Backend Developer   Kigali|05/2021-03/2022

- Contributed to backend development for a financial app, optimizing database queries to reduce latency by 40%.
- Successfully integrated APIs into existing systems, enhancing the app's feature set by 20%.

PROJECTS

Low-Cost Video Surveillance for Theft Detection| Carnegie Mellon University

- Optimized OpenCV-based computer vision algorithms for low-power hardware, reducing computation.
- Led demos and co-authored a paper highlighting innovations for underserved communities.

Healthcare Medication Robot car | Carnegie Mellon University

- Programmed a robot for autonomous medication delivery in healthcare settings.
- Implemented obstacle avoidance and precise navigation using integrated sensors and Arduino.

AI-Powered Ophthalmology Image Translation | University of Rwanda

- Designed and fine-tuned deep learning models for detecting eye diseases from medical images.
- Enhanced training time and inference speed using TensorFlow and PyTorch.

AI-Powered Sorting System for Dust Management | Huawei

- Developed an AI-powered system to sort the dust particles, reducing environmental hazards.
- The project won top awards in Rwanda and Zambia, earning a trophy and a tour to China.

Hobbies

Reading, Journalism, Playing Guitar, working out, and worship leading