

Wuyeh Jobe

Phone: (+971) 552881379, Email: jwuyeh@gmail.com, Web: <https://www.linkedin.com/in/wuyehjobe/>

SUMMARY

- Working as a research engineer at New York University Abu Dhabi to assist our lab in developing tools for research purpose.
- Worked on 10+ software development projects in The Gambia, Ghana, Rwanda, and the US.
- Worked as a teaching assistant for two graduate-level courses at Carnegie Mellon University Africa.
- Participated in 15+ presentations, including technical presentations, business pitches, and motivational talks.
- Developed a web application for visualizing air quality data from different sources on the African continent and won a machine learning competition on churn prediction for a telecommunication company.

EDUCATION

Carnegie Mellon University (CMU) Africa

Kigali, Rwanda

Master's degree in information technology: specialization in applied machine learning and software development

May 2021

Ashesi University

Berekuso, Ghana

Bachelor's degree in computer science

June 2019

Scholarship Award: MasterCard Foundation (MCF) Scholar at CMU Africa and Ashesi: prestigious full scholarship awarded to students with outstanding leadership potential and commitment to promoting sustainable development within their communities

PROFESSIONAL EXPERIENCE

New York University Abu Dhabi

Abu Dhabi, United Arab Emirates

Research Engineer

January 2025 - Present

- Researching into the use of LLMs in religion and built *FatwaCritic*, an agentic critique tool for evaluating reasoning quality, methodological rigor, and citation integrity in AI-generated fatwas or fatwas posted in online platforms.
- Researching into data-voids to understand overconfidence and misinformation risks in LLM reasoning under uncertainty.
- Implemented end-to-end research infrastructure for data collection, automated LLM querying, and data analysis.
- Currently collaborating with professors and other researchers to write papers on these studies for submission in journals

DEPT Agency (Remote)

Denver, Colorado, USA

Software Engineer

September 2021 – January 2025

- Worked with a team of developers and designers to create software solutions for institutions and businesses.
- Conducted code reviews and testing, and collaborated with other stakeholders to deliver bug-free applications.
- Mentored interns of the company to enhance their professional skills in software development.

Carnegie Mellon University Africa

Kigali, Rwanda

Graduate Teaching Assistant (Data Structures and Algorithms)

January - May 2021

- Organized labs to teach and enhance students' understanding of various topics in data structures and algorithms.
- Provided efficient solutions that apply appropriate data structures and assisted students in solving assignment problems.

Graduate Teaching Assistant (First-Year Seminar)

September – December 2020

- Graded students' work and provided constructive feedback to enhance their performance in a seminar course that develops students' career skills and broadens their professional horizons by exposing them to a wide-ranging set of issues in ICT.
- Supported faculty and students during class sessions to facilitate group discussions and presentations.

Kigali Collaborative Research Center

Kigali, Rwanda

Web Developer

May-August 2020

- Developed a web application using open-source technologies to visualize air quality data collected by low-cost sensors.
- Created functionalities to efficiently pull data from different sources, visualize it and make it available for download.
- Hosted web application and setup Cron jobs on AWS to periodically update data from various sources.

EdPlus At Arizona State University

Scottsdale, Arizona, USA

Research Intern

May-July 2018

- Collaborated with a team of four other students to improve the MasterCard Foundation Scholars' online platform by

conducting research interviews and analysis of data.

- Developed a prototype for a new functionality and a five-minute documentary to improve scholars' use of the platform.

SELECTED TECHNICAL PROJECTS

Image Segmentation with U-Net and Transfer Learning

Image segmentation has wide-ranging applications in computer vision. From scene understanding in autonomous driving to medical imaging, image segmentation is one of the most significant aspects of computer vision. In this project, I trained a U-Net model and applied different techniques to improve the results. [Report](#). [Code](#).

Carnegie Mellon University
December 2020

Tools and technologies: Python, TensorFlow, NumPy, Scikit Learn

Spotting Differences Between Affine Invariant Images and Counting the Number of Object Differences

Spotting differences between images is used in many computer vision applications including fraud detection. However, this is not trivial especially when the images are distorted. In this project, I used OpenCV in C++ to explore techniques used for image alignment and detecting object differences between images. [Report](#). [Code](#).

Carnegie Mellon University
October 2020

Tools and technologies: C++, OpenCV, LaTeX

Predicting Internet Traffic Volume Using Hidden Markov Model

Different approaches have been used to predict traffic volume based on statistics present in the traffic such as flow count and flow volume. In this project, we attempt to apply the method used by Chen et al. (2016) on a different dataset to predict the traffic volume. Our goal is to do a comparative analysis with the results described in the paper, and where there are differences, we try to understand the cause of the differences. [Link](#).

Carnegie Mellon University
May 2021

Tools and technologies: Python, Pandas, Scikit Learn, Google Collab

A Resource Planning Software for Youth Agripreneurs in Africa

This project is about creating a resource planning software for youth Agripreneurs on the continent to help them manage their resources in the face of disastrous land tenure systems, climate change, and the increase in the use of land for non-agricultural purposes. [Report](#). [Code](#).

Ashesi University
January – May 2019

Tools and technologies: Python, Flask, MySQL, HTML, CSS, etc.

COMMUNITY SERVICE PROJECT

GamFruits (*innovative community-based project to increase food security*)

Co-Founder/Project Lead

- Developed software to manage activities taking place on the farm.
- Won a [fellowship](#) and \$7500 in funding by participating in a social venture competition

Gunjur, Gambia
May 2016 – July 2019

TECHNICAL SKILLS

- Computer Programming Languages (Advanced): Python, Java, C/C++
- Web Programming (Advanced): PHP, HTML, CSS, JavaScript, Django, Ruby on Rails, NodeJS, ReactJS, AlpineJS
- Database (Advanced): MySQL, PostgreSQL, (Basic)MongoDB
- Android development (Advanced): Kotlin, Java
- Data Analytics and Applied Machine Learning
- Cloud Technology (Intermediate): AWS

AWARDS

- [Winner](#) of UmojaHack Rwanda: Espresso Churn Prediction Challenge with Machine Learning (June 2020)
- Finalist, Ashesi Most Enterprising Business Pitch Competition (March 2017)
- Resolution [Fellow](#): Resolution Fellowships recognize young leaders for their initiative and innovation in addressing social challenges through social entrepreneurship (August 2018)

REFERENCES

- Prof. George Okeyo (gokeyo@andrew.cmu.edu)
- Prof. David Vernon (dvernon@andrew.cmu.edu)
- Prof. Assane Ndiaye (assaneg@andrew.cmu.edu)