# Chijioke Ugwuanyi
Website | GitHub | LinkedIn

## SKILLS

**Programming**: Python, Java, Javascript

**Frameworks and Toolkits**: NumPy, Pandas, Scikit-learn, PyTorch, Tensorflow

**Cloud and Database**: AWS, PostgreSQL, MongoDB

## EDUCATION

**Carnegie Mellon University** | **August 2024 – December 2025**
- **M.Sc., Information Technology**

**University of Nigeria** | **September 2015 – November 2019**
- **B.Sc., Biological and Data Science | Grade:** Second Class Honours

## EXPERIENCE

**AI Intern**, *Jego Pods, United States* | Remote | **Jul 2024 – Jan 2025**
- Developed machine learning (ML) models to classify bad roads, while collaborating in a Scrum (Agile) environment.
- Designed predictive algorithms for energy demand forecasting in Jego EVs.
- Built computer vision algorithms for object detection and tracking for self-driving cars.

**Senior Software Engineer**, *Interswitch, Lagos, Nigeria* | On Site | **Nov 2021 – Jul 2024**
- Led data science and machine learning research to derive insights from diverse healthcare data.
- Improved backend system scalability and reliability by breaking down monolith architecture into various microservices, decreasing load time by over 50%.
- Ensured tight cooperation among colleagues through active listening, systematic communication, and leadership skills, leading to launch of 3 business platforms across 3 states in Nigeria within stipulated timeline.

**Fullstack Developer**, *Minerva Technologies, Nigeria* | Remote | **Jan 2021 – Nov 2021**
- Built sophisticated admin software for support personnel to handle 90% of tasks with ease.
- Boosted support work by over 50% by implementing an automatic transaction reversal project, for merchant transactions.
- Built a machine learning pipeline for digital identity verification and fraud detection to reduce the number of merchant verification steps and time by at least 2 hours per day.

**Software Engineer**, *Adbasador Media Limited, Nigeria* | On Site | **Jun 2017 – Nov 2020**
- Architected, designed, developed, and maintained 3 software solutions and re-engineered existing software quality to decrease page load times to less than 1 second.
- Created an optimized implementation plan to ensure smooth rollout resulting in 50% productivity enhancement; analyzed business processes and software requirements for implementation across 3 software solutions.
- Upgraded deployment platform to cloud-based systems, and cut out scaling and high availability problems by at least 50%.

## PROJECTS

**Evaluating Model Robustness to Adversarial Attacks | Project link**
- Conducted adversarial robustness research on CIFAR-10 that revealed ResNet-50 models drop from 87% to 9% accuracy under FGSM attacks, but adversarial training can recover 55% robustness.

**MLOPS Pipeline | Project link**
- Engineered an end-to-end data engineering pipeline, including data ingestion and orchestration, data

transformation, and analysis.

**Comparative Analysis of Classification Models | [Project link](#)**
- Carried out a research to identify the best machine learning model for loan approval prediction based on two metrics: accuracy and area under curve.

**Plaid Shell implementation from scratch | [Project link](#)**
- Implemented a fully featured Linux shell from scratch using C.

**Hoppscotch API Live Sync | [Project Link](#) | [Blog Post](#)**
- Added API Live Sync feature to Hoppscotch to auto-sync backend code changes to API documentation.

## CERTIFICATIONS & LINKS

- [Amazon Web Services](#) | Intermediate
- [Andela Web Specialist](#)
- [Google Web Specialist](#)
- [Harvard CS50 Certificate](#)
- [Kaggle](#) | Machine Learning Project

## LEADERSHIP & COMMUNITY ENGAGEMENT

**Vice President Education,** *TechyTalkers Toastmasters Club* | **09/2024 - 10/2025**
- Organized meetings, assigned speech roles, and ensured members progress through their educational pathways.
- Connected new members with mentors, tracked individual progress, and recognized member achievements.
- Created the meeting schedules, planned contests, and ensured high-quality learning experiences.

**Member***, Data Science Club, CMU-Africa* | **2024-2025**
- Led a team to participate in the Disability AI Hackathon where we used disability datasets to build solutions for disabled people in Africa, came out in the top 5.

**Volunteer,** *[The Lagos Food Bank Initiative](#)* | **01/2024 – 07/2024**
- Facilitated outreaches and workshops on food distribution to indigent communities in Lagos, Nigeria.