

# REGINALD CHUKWUKA MOLOKWU

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## SUMMARY

- Interdisciplinary scientist with skills and experience in Machine learning, Computer vision, Data mining, and Natural language processing
- Led collaborative projects, resulting in 2 peer-reviewed publications, including 1 high impact first-authored publications.
- Deep understanding of statistical data analysis, and Object Oriented Programming.
- Self-motivated, problem-solving and collaborative scientist with excellent communication skills
- Looking to contribute in using computational methods to push forward the field of Artificial Intelligence and teaching juveniles bleeding edge technologies of AI.

## TECHNICAL SKILLS

- **Programming Languages:** Python, VB.NET, C#.NET, PHP.
- **Tools and Scripts:** OriginPro,  $\text{\LaTeX}$ , HTML, CSS, Bootstrap.
- **Frameworks:** dotNet Bunifu, Django, Laravel.
- **Libraries:** Keras, Pytorch, Sci-kit learn, Pandas, Statsmodel, Matplotlib, OpenCV, NLTK, Word2Vec, Spacy, etc.
- **Database API:** MySQL, Rest API, Foursquare API.

## RESEARCH AND WORK EXPERIENCE

### Chukwuemeka Odumegwu Ojukwu University, Uli

B.sc Research project

Oct. 2020 to Feb. 2021

- Conducted an empirical study to design an image classification hybrid model that could utilize just a little amount of input and required little memory to perform the prediction task well.
- Explored new image kernel combinations that matched the goal profile using computational approaches (deep learning).
- As a result of this initiative, I was able to publish one paper in a B CORE-ranked journal as the first author.

### Omdena AI, Palo, USA

Remote Machine learning Engineer

Aug. 2019 to Nov. 2019

- The UNHCR Somalia displacement dataset was used to conduct the data analysis. As a consequence of my research, I was able to identify areas of Somalia that are experiencing population displacement as well as the causative factors.
- Collaborated in Implementing a deep learning model using U-NET to identify climate/natural risks in the areas of Somalia where satellite photos were segmented.
- Supported the labeling and downloading into an Amazon S3 bucket of satellite pictures needed in the model's construction.
- Participating in weekly conference meetings held via zoom.

### Bhevencious Technologies, Victoria Island, Lagos

Data Analyst - Undergraduate Internship

Dec. 2018 to Aug. 2019

- In six (6) VCDP States of Nigeria, I worked as an intern field staff for the study of the Rice CAYS (Crop Area Yield Survey) under the Federal Government of Nigeria's World Bank Value Chain Development Project (VCDP).
- Constructing unique linear regression models capable of estimating the impact of the VCDP project in all VCDP states of the federation.
- Optimization and benchmarking of proprietary softwares.

## EDUCATION

- Bachelor of Science (B.sc, *Second Class Upper Honours*), Computer Science, Chukwuemeka Odumegwu Ojukwu University, (Formerly Anambra State University), Anambra state, Nigeria. **CGPA - 3.86/5**

## TEACHING AND PROFESSIONAL SERVICES

- July 2021 - October 2021: Teaching of MS. Office, Web design and PHP Programming to students enrolled at the Awka, Nigeria study center of ApTech Vocational Institute Mumbai, India.
- 2017 - 2020: Assisted 1 Professor in preparing of lecture slides, proposals, and recording of research results.
- 2018 - 2019 - Helped two college students with their coding projects by serving as a mentor.

## AWARDS

- Recipient of *Udacity - Facebook Scholarship* Secure and Private AI 2019.
- Departmental Award of the "*Most Industrious Computer science student*" 2017.

## PUBLICATIONS

- **In Press** Reginald, M. C., Bonaventure, M. C., Victor, M. C., Ogochukwu, O. C. '*FUSIONET: A Hybrid Model Towards Image Classification*'. International Journal of Computational Intelligence and Applications.
- MOLOKWU REGINALD CHUKWUKA, "*AN ADVANCED MOVIE RECOMMENDER ENGINE IMPLEMENTED IN PYTHON*", IJERT - International Journal of Innovations in Engineering Research and Technology, Volume 6, Issue 5, ISSN : 2394-3696, Page No. 25-29.

## OTHER INFORMATION(S)

**Area of Interest:** Machine learning research Problems in Computer vision Cybersecurity, Natural Language Processing and Data mining.

**Languages:** English (full professional proficiency), Igbo (native or bilingual proficiency).

**Certifications:** IBM Professional Certificate in Data Science, Udacity Computer Vision Nanodegree.

**Affiliation:** Associate member: Association of North America Higher Education International (ANAHEI).