

Ebuka Johnbosco Okpala
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Education

Clemson University, Clemson, SC

Ph.D. in Computer Science

August 2020 – May 2024 (Expected)

- Research interests: Applied ML, Deep Learning, and Natural Language Processing

M.S. in Computer Science: GPA: 3.75

August 2018 – May 2020

- Relevant coursework: Design and Analysis of Algorithms, Deep Learning, Hand on Machine Learning, Applied Data Science, Database Management Systems, Software Architecture and Computer Security

Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

B.Sc. Computer Engineering: Second Class (Upper division)

August 2011 – June 2015

Technical Skills

Programming Languages: Python, C/C++, Java, Swift and SQL

Machine Learning Libraries: TensorFlow, Keras, PyTorch, Trax, Scikit-learn, Numpy and Pandas

Web Development: JavaScript, PHP, jQuery, Node.js, MySQL, HTML5 and CSS

Work Experience

Clemson Online - Clemson University

Clemson, SC

Digital Tech Coordinator (Graduate Assistantship)

August 2019 – Present

- Developed data analytics dashboards using SQL, Splunk, and its Search Processing Language. These dashboards provide insights into how students and faculty use learning tools and have enabled the University to decide what tools to retain, thereby saving costs.
- Worked across teams to develop and maintain the learning technology tools' websites of Clemson University that Clemson Online supports
- Automated the calculation of location metrics of thousands of Clemson University students. Improving a manual process that took weeks to under 5 minutes

Apple Inc

Seattle, WA

AI/ML Software Engineering Intern

May 2021 – August 2021

- Developed a new end-to-end Siri feature that improves the Siri experience in the home

Eresea Foods Inc

Anambra, Nigeria

Web Software Developer

January 2017 – June 2018

- Designed and developed the Eresea Foods' website from start to production and managed the website after production

Andela

Remote

Web Application Developer Trainee

October 2017 – May 2018

- Developed a progressive news feed headlines web application
- Developed RESTFUL APIs for a web-based student information system using Node.js, AngularJs and MonogoDB

Publications and Posters

- **Characterizing Offensive Tweets in the Era of COVID-19.** Song Liao, Ebuka Okpala, Long Cheng, Nishant Vishwamitra, Mingqi Li, Hongxin Hu, Feng Luo, Matthew Costello. Compute Supported Cooperative Work And Social Computing (CSCW), 2022. (In review)
- **COVID-HateBERT: a Pre-trained Language Model for COVID-19 related Hate Speech Detection.** Mingqi Li, Song Liao, Ebuka Okpala, Tong M, Matthew Costello, Long Cheng, Hongxin Hu, Feng Luo. International Conference on Machine Learning and Applications (ICMLA), 2021
- **COVID-19: A Pandemic of Anti-Asian Cyberhate.** Matthew Costello, Long Cheng, Feng Luo, Hongxin Hu, Song Liao, Nishant Vishwamitra, Mingqi Li, Ebuka Okpala. Journal of Hate Studies (JHS), 2021
- **BranchCorr: Detecting Incompatible Branch Behavior by Enforcing Branch Correlation Integrity.** Long Cheng, Ebuka Okpala, Song Liao, Danfeng(Daphne) Yao. Secure Development Conference (SecDev), 2019 poster

Academic Projects

Database Management System

Spring 2019

- Designed, developed, and deployed [MeTube](#) on AWS. This project is a modified version of YouTube that supports other file types. Among others, users can start discussions, create channels, leave comments.

Deep Learning

Spring 2019

- Developed a Convolutional Neural Network model to classify and detect cyberbully in images using PyTorch
- Implemented neural machine translation model to translate human readable dates into machine readable dates using an attention model using TensorFlow

Hand on Machine Learning

Fall 2019

- Developed a Naïve Bayes model from scratch to predict if an email subject line is spam or not spam, using Python and NumPy
- Developed a Logistic Regression model and a K-Nearest Neighbour model from scratch to classify fishes based on body dimension, using Python and NumPy

Certifications

- Deep Learning by deeplearning.ai on Coursera
- DeepLearning.AI TensorFlow Developer by deeplearning.ai on Coursera
- Natural Language Processing with Probabilistic Models by deeplearning.ai on Coursera