

# Ebuka Johnbosco Okpala

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## Education

### Clemson University, Clemson, SC

Ph.D. in Computer Science

Aug 2020 – Dec 2023 (Expected)

- Research interests: Applied ML, ML for security and security

M.S. in Computer Science

Aug 2018 – May 2020

- GPA (3.75 / 4)
- 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.S in Computer Engineering

Aug 2011 – 2015

- Second Class (Upper division)

## Technical Skills

Programming Languages: Python, C/C++, Java 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

Aug 2019 – May 2020

Digital Tech Coordinator (Graduate Assistantship)

- Developed data analytics dashboards using SQL, Splunk, and its Search Processing Language. These dashboards provided valuable insights that enabled the University to manage the cost of learning technology tools
- Worked across teams to develop and maintain the learning technology tools' websites of Clemson University that Clemson Online supports
- Developed an automation script to automate the calculation of location metrics of thousands of Clemson University students. Improving a manual process that took weeks to under 5 minutes

### Eresea Foods Inc, Anambra, Nigeria

Jan 2017 – June 2018

Web Software Developer

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

### Andela, Lagos, Nigeria

Oct 2017 – May 2018

Web Application Developer Trainee

- 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

- [BranchCorr](#): Detecting Incompatible Branch Behavior by Enforcing Branch Correlation Integrity. Long Cheng, Ebuka Okpala, Song Liao, Danfeng (Daphne) Yao. (Poster presented at IEEE SecDev 2019)

## Academic Projects

### Database Management System

Spring 2019

- Designed, developed and deployed [MeTube](#) on AWS. This project is a modified version of YouTube which supports more file types, users can start discussions, create channels, comment etc

## **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