

# Ebuka Johnbosco Okpala

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## Education

### Clemson University, Clemson, SC

Ph.D. in Computer Science

Aug 2020 – present

- Research interests: ML, ML security, 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, 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, Java, SQL.

Machine Learning Libraries: TensorFlow, Keras, PyTorch, Trax, scikit-learn, Numpy, Pandas.

Web Development: JavaScript, PHP, jQuery, Node.js.

## Work Experience

### Clemson Online, Clemson University

Aug 2019 – present

Digital Tech Coordinator (Graduate Assistantship)

- 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.
- Collaborated across teams to brainstorm website design ideas.
- Developed responsive websites for supported tools and developed documentations for new tools.

### Eresea Foods Inc, Anambra, Nigeria

Jan 2017 – June 2018

Web Software Developer

- Designed and developed the company's website from start to production, from scratch.
- Managed the company's website.

### 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 images using Python and PyTorch.

- Implemented neural machine translation model to translate human readable date into machine readable date using an attention model.

## **Certifications**

- Deep Learning by deeplearning.ai on Coursera.
- TensorFlow in Practice by deeplearning.ai on Coursera.