

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, 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.