Ebuka Johnbosco Okpala
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Education
Clemson University, Clemson, SC
Ph.D. in Computer Science   August 2020 – December 2023 (Expected)
- Research interests: Applied ML, ML, and security

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 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
- 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 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
- [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 other 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 starch 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