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
- Implemented trigger word and car detection models.
- Implemented neural machine translation model to translate human readable date into machine readable date using an attention model.

- Implemented neural style transfer.

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