WATSON AGBRAMU

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+1 519 575-5584

Portfolio   **LinkedIn**   **Github**

SKILLS

Programming: Python, JavaScript (ES6), TypeScript, MATLAB.
Web Development: HTML, CSS, SCSS, Bootstrap, Materialize CSS, Semantic UI, jQuery, React JS, Redux, Express JS, Node JS
Data Analysis: NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow, Keras.
Database: MySQL, PostgreSQL, MongoDB, FireStore.
Others: Git, Linux, Heroku, Agile (Scrum).

EDUCATION

University of Waterloo, *Waterloo, ON*   **December** 2020

Master of Engineering in Electrical and Computer Engineering, **Distinction**

Certificate in Business and Entrepreneurship (Conrad School of Business)

Relevant Courses & Projects

Data & Knowledge Modelling & Analysis

- Created a dog breed classification model with **Python** using **transfer learning** on fine-tuned **Inception-Resnet-V2** and **Efficientnet-80** architectures and obtained an accuracy of **92.18%** and **85.38%** respectively on 120 dog breeds which surpassed existing literatures.

Image Processing and Visual Communications

- Created and proposed new annotations for a subset of INRIA person dataset using **LabelImg Software** to improve detection performance by over **20%**.
- Performed Data Augmentation using **Python** and trained **Faster RCNN** using **Inception-Resnet-V2** and **Resnet-50** as backbone architecture on pedestrian images obtaining an average performance of **89.6%** and **86.0%** respectively.

Project Management

- Developed part of the Teachers without Frontiers (TWF) Project deliverables by employing project management methodologies on the Science Curriculum for Grade VI and Grade VII to improve education access in remote areas of Pakistan by over **30%**.

Federal University of Oye-Ekiti, *Oye-Ekiti, Ekiti State (FUOYE)*   **January** 2018

Bachelor of Electrical and Electronics Engineering, **First Class Honours**

RELEVANT PROJECTS

Crown-Enterprise

- Created an e-commerce application to handle online retail using Express JS, React JS, Redux, SCSS, Firebase, Stripe, etc.

Mailer

- Created an application to get customer feedback using Express JS, React JS, Redux, Redux Form, CSS, Mongoose, MongoDB, Passport JS, Stripe, etc.

Portfolio

- Created a personal portfolio website showcasing my skills using React JS, Redux, CSS, Bootstrap, Particles JS etc. and hosted it on Github pages.

Color-Picker

- Created a fun color picker project hosted on github pages to help with picking the right background when designing websites using React JS and SCSS.

EXPERIENCE

Graduate Assistant   **May** 2018 - **March** 2019

University of Ilorin, *Ilorin*, Kwara *State, Nigeria*

- Led discussion, tutorials, and laboratory sessions for 200, 300 and 400 level students.
- Evaluated and graded laboratory exams and assignments in compliance to the provided marking scheme.
- Secretary at final Year Defence accessed students and graded them based on performance.
- Took meeting minutes at departmental meetings by using MS Word to account for all issues discussed.

Student Intern   **April** 2016 - **October** 2016

Alcon Nigeria Limited, Warri, Delta State, Nigeria,
Shell Workshop, *Warri*, Delta *State, Nigeria.*

- Restored power to Obotobo-1 & 2 communities of Ogulagha Kingdom after a power outage of over 2 weeks by suggesting a series-parallel battery connection to the Chief Engineers to aid boost the current required to drive the CAT engine using knowledge of electronics.
- Calibrated Pressure and Temperature gauges to be used at the Forcados Yokri Integrated Project (FYIP) using a dead weight tester and dry block calibrator.
- Troubleshooted and repaired CAT generators using the CAT tester and troubleshooting guide.

LEADERSHIP AND AWARDS

- Best Overall Graduating Student for 2016/2017 academic session *(Federal University Oye-Ekiti Prize).*
- Departmental and Overall Best Graduating Student in the Faculty of Engineering for 2016/2017 academic session.
- Faculty of Engineering Best Student for 2016/2017 academic session *(J.A Soremekun Memorial Prize).*
- Served as representative at a NUESA event for the Faculty of Engineering (*FUOYE*) to give a lecture on safety practices in the workplace based on my leadership potential, communication skills and academic success.
- Represented the Faculty of Engineering (*FUOYE*) at a project exhibition at Afe Babalola University, Ado-Ekiti based on my academic performance and timely completion of my final year project.

CERTIFICATIONS

- *Coursera:* Python Data Structures, Using Python to Access Web Data, IBM Exploratory data analysis for Machine Learning.
- *Data Camp*: Data Manipulation with pandas, Python Data Science Toolbox (Part 1 & 2), Introduction to Data Visualization with Matplotlib.
- *LinkedIn Learning:* Applied Machine Learning: Foundations, React.js Essential Training, React.js: Building an Interface.