

WATSON AGBRAMU

[Portfolio](#)[LinkedIn](#)[Github](#)[Email](#)

SOFTWARE ENGINEER

EDUCATION

University of Waterloo, Waterloo, Ontario

Sept 2019 - Dec 2020

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

Certificate in Business and Entrepreneurship (Conrad School of Business)

Federal University of Oye-Ekiti, Oye-Ekiti, Ekiti State (FUOYE)

Feb 2013 - Jan 2018

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

PROJECTS

Crown-Enterprise Application

- Created an [e-commerce](#) application to handle online retail using Express JS, React JS, Redux, SCSS, Firebase, Stripe, etc.
- Deployed application to Heroku and ensured PWA compliance.

Natours Application

- Developed and published a full stack server-side rendered [e-commerce](#) application for booking tours using Express JS, Pug, CSS, JWT, Mapbox, Stripe, MongoDB etc.

Mailer Application

- Designed an application to get [customer feedback](#) using Express JS, Passport JS, React JS, Redux, CSS, Mongoose, MongoDB Stripe, Sendgrid etc.

ShareMe Application

- Built a [social media](#) full stack application for sharing, saving, and downloading pictures using React JS, Tailwind CSS, Sanity IO, etc.

EXPERIENCE

Software Developer

Jun 2021 – Aug 2021

Neo Financial, Calgary, Alberta, Canada.

- Designed logic to create credit statements to be sent to Symcor for printing using Node, React, AWS, Terraform, Typescript, GraphQL, MongoDB, Jest.
- Implemented code to send declined transactions to third-party API (Fraud Net) and store the response using Node, AWS, Typescript, Terraform, MongoDB, Jest.

Data Scientist

Sept 2019 - Dec 2020

University of Waterloo, Waterloo, Ontario, Canada.

- Created a dog breed classification model with Python using transfer learning on fine-tuned Inception-Resnet-V2 and Efficientnet-80 architectures obtaining an accuracy of 92.18% and 85.38% respectively on 120 dog breeds.
- Proposed new annotations for a subset of INRIA person dataset using Label-Img 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.

Graduate Assistant

May 2018 - Apr 2019

University of Ilorin, Ilorin, Kwara State, Nigeria.

- Conducted 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.

Student Intern

Apr 2016 – Oct 2016

Alcon Nigeria Limited, 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.
- Troubleshoot and repaired CAT generators using the CAT tester and troubleshooting guide.

SKILLS

Programming: JavaScript (ES6), TypeScript, Python.
Web Development: React JS, Redux, Express JS, Node JS, GraphQL, RESTful API, HTML, CSS, SCSS, Bootstrap, jQuery.
Testing Frameworks: Jest, Enzyme.
Data Analysis: NumPy, Pandas, Scikit-learn, Matplotlib, TensorFlow, Keras.
Database: MongoDB, MySQL, PostgreSQL, FireStore.
Others: Git, Linux, Heroku, Agile (Scrum).

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 (2016/2017 academic session).
- Faculty of Engineering Best Student - 2016/2017 academic session (J.A Soremekun Memorial Prize).
- Represented the Faculty of Engineering (FUOYE) to give a lecture on safety practices in the workplace at FUNAAB.
- Represented the Faculty of Engineering (FUOYE) at a project exhibition at Afe Babalola University, Ado-Ekiti.
- Represented the Faculty of Engineering (FUOYE) at an Intel Galileo event at Elizade University, Akure.

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.
- Novelle Innovation Center Basic First AID/CPR Training Course.
- British International Safety Organization [United Kingdom SHE Organization] (HSE Levels 1, 2, & 3).
- Department of Petroleum Resources Environmental Impact Assessment.
- National Youth Service Corps (NYSC) discharge certificate, Nigeria.

VOLUNTEER ACTIVITIES

Environmental Protection and Sanitation Group (EPSG)	Oct 2019 - Mar 2020
<ul style="list-style-type: none">• Provost (Environmental Protection and Sanitation Group).• Worked closely with the President and Group Supervisor to ensure punctuality of all members to meetings, collected fine from defaulters and remitted to the treasurer.	
Redeemed Christian Fellowship (Final Year Students 2017 set)	May 2017 - Oct 2017
<ul style="list-style-type: none">• President (Redeemed Christian Fellowship - Final year Students 2017 set).• Managed team members and ensured all opinions were strategically evaluated and considered.	
Federal University Oye-Ekiti (Final Year Students 2017 set)	May 2017 - Oct 2017
<ul style="list-style-type: none">• Treasurer (Federal University Oye-Ekiti - Final year Students 2017 set).• Managed and accounted for funds received as payment by creating an expense reports sheet using MS Excel.	