

Olawale M. Onabola

SOFTWARE ENGINEER

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“The will to win, the desire to succeed, the urge to reach your full potential...”

“A good goal is like a strenuous exercise - it makes you stretch.”

Education

Coursera (Deeplearning.ai)

Online

DEEP LEARNING SEPECIALIZATION

March – May 2018

- Courses included Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks and Sequence Models
- I am on a financial aid from Coursera.

Heriot-Watt University

Edinburgh, UK

MSC IN ARTIFICIAL INTELLIGENCE

Sep 2018 – Aug 2019

- I have been offered a place of study at Heriot-Watt for the upcoming Fall session.
- Core Courses: Biologically Inspired Computation, Data Mining and Machine Learning, Intelligent Robotics, Research Methods and Project Planning, Masters project and dissertation

OAU (Obafemi Awolowo University)

Ile-Ife, Nigeria

BSC IN ELECTRICAL/ELECTRONIC ENGINEERING

Sep 2011 – April 2017

- *Class of Degree:* Second Class Upper (2:1)
- Undergraduate Coursework: **Computer Programming**, Mathematical Methods, Introduction to Computer Packages, Microelectronic Devices and Circuits, Signals and System, **Statistics for Engineers, Computational Structures, Control Systems Engineering, Probability and Stochastic Processes**, Radio Frequency Electronics, **Wireless Communication**, Fundamentals of Human Behavior, Industrial Law and Management, Principles & Practice of Entrepreneurship & Self-Employment, The Humanities and the African Experience.
- **Events:** **Microsoft** Open House event (2012), **Google** I/O extended (2013), **TEDx** Lagos (2013), TENT (Techie Entrepreneurial Nigerian Talented) Gathering 2012.
- Awards/National Scholarships: Agbami Medical and Engineering Professionals Scholarship Awards, Nigerian National Petroleum Cooperation (NNPC)/Mobil Producing Nigeria Unlimited (MPN) Undergraduate Scholarship Awards.

Co-Creation Hub

Lagos, Nigeria

CODE CAMP 2013

July 2 - 27, 2013

- I was selected among the 16 students all over the country to be taken through a 4-week course on **Design and Development of Mobile Applications**.
- I learn **MongoDB, Web Applications (HTML5, JavaScript, AngularJS, and CSS) development**, cross-platform development, introduction to **J2EE**, foundation of **software quality, Mobile UI/UX Design**, amidst others.
- Worked on a **team** to build a cross-platform mobile app during an hackathon at the end of the training.

PMCRG (*Pervasive Mobile Computing Research Group*)

OAU, Ile-Ife, Nigeria

MOBILE TRAINING COURSE

Feb 25 - Mar 29, 2013

- I took a 5-week Mobile Training course organized by Pervasive Mobile Computing Research Group (PMCRG).
- Learn **Java Programming language, Android development, J2ME programming**.
- Worked on a **team** to build a mobile health application at the end of the training.

Oriwu Model College

Ikorodu, Lagos

WEST AFRICAN SENIOR SCHOOL CERTIFICATE (WASSC)

2003 - 2009

- WASSCEs: 9 subjects (6 Distinctions, 2 Credits, 1 Pass)
- Office held: **Senior Prefect (Head Boy)**
- Society: Literary and Debating Society; Junior Engineers, Technicians, and Scientist (JETS).
- Achievements: **First position** in the Knights Club Quiz Competition, State Finalist (Lagos State) in the National JETS Competition.

Experience

Sola Areogun Ministries

Osogbo, Nigeria

SIWES (INTERN)

Nov 2015 - August 2016

- Developed, and published two **Android apps** on the **Google play store** for the ministry; namely Sola Areogun Ministries (the official android app of the ministry) and Spirit Meat Devotional (an android app for the daily devotional of the ministry)
- Developed and deployed a **Nodejs backend** solution for the android apps. I built it on the **MEAN** (MongoDB, Express, Angular and Nodejs) stack, and deployed it with **Strong Loop Process Manager**
- I maintain and update these apps and the backend regularly.
- I build a web client for an **Icecast Server** (an internet radio implementation)

iQube Labs

Lagos, Nigeria

SOFTWARE ENGINEERING INTERN

July 2013 - Aug 2013

SOFTWARE ENGINEERING INTERN (REMOTE)

April 2014 - May 2015

- Performed a software (**Class 4 Soft-switch, precisely Asterisk**) evaluation of a PCC (Prepaid Calling Card) service implementation (a module of a full-fledge **IP-based Communications and Media Platform**)
- I learn PHP and one of its framework (**CakePHP**), and applied the knowledge on the back-end algorithm implementation of a client web app
- I learn another framework (**Laravel**), and applied it in building a company web app (both frontend and backend).
- Review of **graphLab**; study of protocols such as **SMTP, SNMP, SCTP, UDP & SSH; DNS; Graph Theory**; implementation of **algorithms** such as selection & merge sort, DFS; complexity of **algorithms; R language** for data visualization and the **samba server**
- My programming skills were improved, likewise my **Linux** skills as I had to install the soft-switch server on my local host for evaluation purposes.

Nokia Research Center (with VLab Network)

Lagos, Nigeria

STUDENT RESEARCHER & SOFTWARE DEVELOPER

September 2013

- Carried out a **research** on Engaging and Revenue-Generating Methods of Mobile Advertising
- I worked on implementing a mobile software idea
- I attended status meetings and submitted reports on project update
- Build **good communication and interpersonal skills**, gained **expertise** at creating Power Point presentation and official word documents; and learn to be a **good team player**.
- **As a by-product of this program, I have an app in the Windows Phone Store with over 1,500 downloads.**

Jumia.com

Lagos, Nigeria

CUSTOMER/TELESALES AGENT

December 2013

- I had the responsibility of calling customer to confirm their orders, helping to solve complaints and answering inquiries; and up-selling and cross selling products to customer over the phone.
- Build good communication skills, improved my inter-personal skills, and build capacity to convince customers and efficiently relate even with irate customers.

Leadership Training Program

Google Student Ambassador (Sub Saharan Africa) Summit

Accra, Ghana

Aug 11 - 13, 2014

- I participated in the Google Student Ambassador (Sub-Saharan Africa Summit held at Accra, Ghana, before the start of my tenure as the Google Student Ambassador for my school.
- The summit brought together students from different institutions across Sub Saharan Africa for a 3 day workshop on Google Products, Presentation skills, and all it takes to serve as Google's representative on campus.

Extracurricular Activity

Google Student Ambassador (Class of 2014/2015)

- Organized events {both Computer Science focused and non-Computer Science focused} on campus to help students gain knowledge while maximizing platforms Google provides to students to help them realize their goals.
- **Facilitator at the Android Study Jam** {organized in collaboration with the OAU Google Developers Group}
- **Facilitated the opening session of the Android Study Group** that was held at Osun State University

Obafemi Awolowo University IEEE SB

- I am a student member of The **Institute of Electrical and Electronics Engineers** (IEEE), OAU Student Branch (SB).
- My team was one of the top five in Nigeria for 2014 IEEEExtreme programming contest (a 24 hour programming contest for students all over the globe).

Obafemi Awolowo University iLab Team

- I was a member of the Robotics arm of the team.
- I worked together with **team** mates on **LEGO Mindstorms**, particularly to prepare for **World Robotics Olympiad** (WRO).

AIIESEC in ILE-IFE (OAU)

- I was a member of AIIESEC IFE, a local chapter of the world's largest student-run organization.
- I was a member of the IGIP (Incoming Global Internship Program) unit.

Open Source Projects & Contributions

Open Mined (PySyft)

[Link](#)

- A python **deep learning** library
- The goal of this library is to give the user the ability to efficiently train Deep Learning models in a **homomorphically encrypted** state
- I am an **Official Contributor** to the project on GitHub

- **Merged Pull Requests:**
 - Implement the inline Max function for IntTensor on the CPU (#1311, #795)
- **Pending contributions:**
 - Implement the inline Sin function for IntTensor on the CPU
 - Implement the Tan function for IntTensor on the CPU
 - Implement the Take function for IntTensor on the CPU
- Tools/Technologies: Python, C#, Jupyter Notebook, Unity3D.

Internet Radio Website Template

[Link](#)

- A simple template for an internet radio website. It's customizable and optimized for use as an Icecast web client.
- Tools/Technologies: jquery, HTML5, css, AJAX, jPlayer.

Spectrum Sensing (GNURadio)

[Link](#)

- Modified the usrp_spectrum_sense python script.
- It basically scans the radio spectrum and can scan wideband frequencies, and outputs the data to file.
- It can be used with RF frontend such as USRP
- Tools/Technologies: GNURadio, python.

Language Classifier Engine

[Link](#)

- A simple classifier engine to detect the language of the content of a text file.
- Tools/Technologies: Java, FANN

Programming Contests & Hackathons

Riby Finance

Lagos, Nigeria

HACKATHON DEVELOPER

Jan 27 - 29, 2017

- I worked with a team of developers for a single weekend, on a Nigeria Federal Government sponsored project. The project is basically for the Bank of Industry, and it's to affect millions of Nigerians.
- I implemented an additional API using Nodejs, fixed some bugs on the frontend using AngularJS. I used Git to collaborate with other developers.

Facebook CyberXchange Hackathon (2016)

Lagos, Nigeria

IEEEExtreme (2014)

Online

- IEEEExtreme is a 24 hour programming contest for students all over the globe .
- My team ranked top 5 in Nigeria.

Languages & Technologies

- Java, JavaScript (Node.js, AngularJS, Express, **ReactJS**), Python.
- **Android** development, **MongoDB**, MySQL, GNU Radio, Linux, Wordpress, Git, Weka, TensorFlow, TensorFlow, keras, Pytorch.
- **Linux**.

Referee

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