

# 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

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### 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

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## Rioport

Nigeria

FOUNDER/BLOGGER

Feb 2015 – till date

- Rioport connects student at all levels, to life changing opportunities such as global & local internships, fellowships, scholarships.
- I regularly update the site to keep my visitors and subscribers updated on such opportunities across the globe.

## 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 **Iccast 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

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## 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

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### 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

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### 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

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### 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 .

### Online Contest Platforms

- TopCoder @walex4great
- HackerRank @walex4rgreat

## Languages & Technologies

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- Java, JavaScript (Node.js, AngularJS, Express, **ReactJS**), Python.
- **Android** development, Microsoft Azure, **MongoDB**, MySQL, GNU Radio, Linux, Wordpress, Joomla, Git, Weka, TensorFlow, Asterisk, Raspberry Pi.
- **Linux** (I use **Ubuntu** daily. I dual boot windows with Ubuntu [with **Kali Linux**, **Network Security Toolkit**, **Backbox**, **Samurai** Web Testing framework on **Virtual Box**]).

## Referee

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