14 Milford Court Milford Street. HD1 3DY Huddersfield, United Kingdom	Phone: +447459136287 ; +2348093010907 E-mail: john.alamina@theiet.org

Iyalla John Alamina, MIET

Career Objective	Holistic Quality engineering, technology integration and continuous skills development.
Research & Teaching Interests	• Machine Learning • Electronics and control systems • Object Oriented Programming: C++, PHP, Python, Java etc. • Software Testing and Engineering
Ungoing/Future Publications	• Speech Recognition- An Object Oriented Approach • LSTM Language Model for the Wakirike Language – • Pattern-oriented Web development using MVVM and KnockoutJS. • Laser profile algorithms and software
Education	April 2015 **Teaching Assistant Preparation Program (TAPP)** [4-day course] University of Huddersfield, Queensgate, Huddersfield, HD1 3DH, England, United Kingdom. 2015-Date - **Ph.D Informatics and Natural Language Processing**. University of Huddersfield, Queensgate, Huddersfield, HD1 3DH, England, United Kingdom. 2013-2014 - **M.Sc. Engineering Control System and Instrumentation**. University of Huddersfield, Queensgate, Huddersfield, HD1 3DH, England, United Kingdom. 2001-2006 - **Bachelor of Technology, Computer Engineering** Rivers State University of Science and Technology, Port Harcourt
Professional experience	**Dec 2018-Mar 2019: Electronics Design/Embedded Systems Developer. Phoenix Material Testing, Unit 8, The Wallows Industrial Estate, Fens Pool Avenue, Brierley Hill, West Midlands, DY5 1QA** • Design and implementation of Embedded System Circuits using Altium designer. • Routing of Electronic circuit boards using Altium designer • Preparation of BOM using Altium designer and MS Excel • Management of Embedded projects using Microsoft Project • Development of Drivers for various embedded subsystems. • Use of Mbed and Keil platform for development of Embedded firmware • Development of various state machine and other algorithms for embedded firmware. • Development of Embedded Circuit Testing systems • Analysis and design of embedded systems used for various material testing systems. • Implementation of Agile mechanisms for management of embedded projects. **Sep 2017- Jan 2019: Software Engineering Laboratory Tutor, Computing and Engineering, University of Huddersfield, United Kingdom.** • Development of Curriculum for Undergraduate and Post Graduate Study for Web and Machine Learning Technologies. • Wakirike Language demonstrator for the Department of Linguistics • Preparation of Laboratory Demonstration for software Technologies include, ASP.NET Core MVC, ASP.NET Core Web API, Entity Framework, Keras, Matlab, python, SQL server, MySQL, ASP.NET web forms, TensorFlow, ScikitLearn • Courses Taught include: Undergraduate database applications and post graduate

- machine learning series.
- Interacting with students, assisting with answering questions and motivating them to get the best from their laboratory work.

Oct 2018- Dec 2018: Senior ASP.NET Core Web Application Developer, Rocket Horse Limited, Second Floor, Platform Building, Leeds.
- Development and extension of the popular pub quiz hosted application called KWIZZBIT. www.kwizzbit.com
- Technologies include, ASP.NET Core MVC, ASP.NET Core Web API, Entity Framework, Moq, NUnit, Service-Decorator pattern, Python Scripting, Test automation, ReactJS, HTML, CSS, JQuery, Elastic Bean Stalk Integration
- Full Stack Web Portal using JavaScript and ASP.NET technology stack
- Agile Style Development
- AWS Integration and application management
- MySQL, Dependency Injection, AutoMapper, Redis Cache, SignalR

Aug, 2018- Sep 2018: ASP.NET, KeyIVR Technologies Limited, Yorkshire Way, Doncaster.
- Development of ASP.NET Core Web APIs on top of existing Interactive Voice Response solution.
- Integration of bespoke web and data centric solutions on existing Car Parking Database
- SQL Server 2014/2017 Enterprise Database administration
- Maintenance of Existing ASP.NET web forms web sites for customer management and technology integration.

Nov, 2017- June 2019: PHP Web Solutions Architect, Planning and Information Services Department, Office of the Vice Chancellor, University of Huddersfield, HD1 3DY.
- Requirements Analysis
- Implementation of MySQL Database
- Full Stack Web Portal using JavaScript and PHP MVC frameworks

Oct - Dec 2017: Development of Workload balance of Academic Staff of the School of Computing and Engineering, University of Huddersfield. (Freelance Consultation**)**
- Angular 2 , 4 and VueJS used at various stages of the application
- Full Stack Web Portal using ASP.NET web API, Entity framework frameworks

July - Aug 2017: Development of Wakirke Dictionary and Diacritics Data Collection System, University of Huddersfield.(As a part of my research projects**)**
- Angular 2 , 4 and VueJS used at various stages of the application
- Diacritics Croud Sourced Big data collection mobile/web-based application developed using Angular 4 and VueJS
- Full Stack Web Portal using ASP.NET web API, Entity framework frameworks

Sep 2012- July 2013: *Rivers State Sustainable development Agency, 1 Igbodo Street, Port Harcourt*
- **Information Technology Support Officer**.
- Applications Server Administrator, Computer networks and sip telephony networks administrator.
- Web-server Administrator, RSSDA Corporate Web Site.

Jan 2009- May 2012: *Cinfores Nigeria Limited Trans Amadi Gardens, Port Harcourt*
- Design and Implementation Electronic Testing platforms from conception, project management, project documentation and Project Execution.
- Web and Application Developer for Scholarship management System, Lecture Scheduler, Data migration. Integration of SMS server for software product activation.
- Design and implementation of Payment System for Ministry of Finance.
- Design of Biometric Solutions for electronic-testing and Human Resource control.
- Design of Enterprise Network/System maintenance/security policies, procedures and processes

Oct 2008- January 2009: *KB&I Technology (Nigeria) Limited D/Line, Port Harcourt*

	• Business and Software Development. Analysis, Design and Implementation of Enterprise Business Solutions. This includes:
	• Design of Project Monitoring in Rivers State Software Solution.
	• Design and implementation of Human Biometric Data Acquisition Software

Oct 2006- Oct 2007: *FutureShock Consultants, Lagos Island, Lagos*
- Software Developer. Worked Extensively with SAP Business One, MS SQL Server and .NET platform for maintenance of Glo fone pals mobile social network web application and development of SAPB1 Financial solution for First Trustees Nigeria Limited.

May 2005 - November 2005: *Aptech World Wide Education, Victoria Island, Lagos*
- Industrial Training: Database Administrator in Charge of the Centre Administration and Examination System. Faculty of programming and database courses including Microsoft Access, MS SQL Server, C#, Java, C, Web design and a variety of others. Involved in corporate training of MS SQL Server.

Feb 2003- Apr 2003: *Resourcery Limited, Victoria Island, Lagos*
- Internship: Networks and Telephony Department. Involved in Installation, Maintenance and Troubleshooting of Cisco Network Infrastructure, Telephone PBX Networks of types Avaya, Ericsson, Panasonic.

Professional memberships:	• Member, Mikrotik Network Professionals
	• Member, Institute of Engineering and Technology (IET)
	• Member, Association of Computing Machinery(ACM) + ACM Special Interest Group for Computer Graphics (ACM-SIGGRAPH).
Human Skills	• Intuitive Human skills, team building, project management
	• Excellent Customer Relations and user-centric solution development
Conferences Attended:	• Annual Researchers' Conference (CEARC'13) of University of Huddersfield School of Computing and Engineering, Huddersfield, United Kingdom (December,2013)
	• 2011 Elearning Africa International Conference on E-Learning held in Dares Salam, Tanzania.
Hobbies	Swimming, mechatronics, computer graphics and music.

References	Dr. Haydn Martin Research Fellow, Centre for Precision Technology School of Computing and Engineering University of Huddersfield United Kingdom h.p.martin@hud.ac.uk [+44 1484 472167]	Dr. David Wilson Senior Lecturer Department of Informatics School of Computing and Engineering University of Huddersfield United Kingdom d.r.wilson@hud.ac.uk [+44 1484 473118]

Appendix

Projects Executed	• Development of C++/Python/Perl/Bash based Automatic Speech Recognition engine using Kaldi and Sphinx4 systems. Research Project Carried out at the University of Huddersfield. • Songs Database Mobile Web application for Redeemed Christian Church of God, Huddersfield. ASP.NET core web api + Entitity framework+PHP MVC Framework Web Application. • Framework for Developing Mobile & Web Applications using Agile Techniques and KnockoutJS. Including a Literature Database and Web Forms Generation Engine. • Development of a 2/3D Laser profile software toolset. Computer based laser analysis and diagnosis tool [Master's degree Project] • Development of a mobile phone virtual multimeter instrument. • Business Application. Implemented at Bitsom Eye Clinic, Rumuibekwe, Port Harcourt. • Reengineering of a Computer Based Testing Application to a Java Web-Based Distributed solution deployed at the 2011 nationwide Petroleum Development Trust Fund Scholarship Aptitude Test. • Implementation of a Short Message Service (SMS) server to activate Software products. • Developer in the creation of Enterprise Investor Financial software for First Trustees Nigeria Limited. Financial Software was based on Dot NET platform and integrated SAP Business One • University CGPA Calculator for J2ME Mobile Phones. (A personal Project) • Personal Expenses Manager for Nokia Series 60 Mobile phones. A personal project based on Python for Nokia Series 60 Platform. • University Admissions Database System. Application Developed and used for the Rivers State University of Science and Technology Port Harcourt Admissions Office. • Java based traffic light simulator. Being an Industrial training project seminar presentation

Technical Skills

S/N	TECHNOLOGY	EXPERIENCE	LEVEL
1	**Tensorflow deeplearning**	**2+ Years**	**Expert**
2	Scikit-Learn	2+ Years	Proficient
3	Python Machine Learning	2+ Years	Proficient
4	Keras	1+ Years	Intermediate
5	Kaldi Speech Recognition	1+ Years	Beginner
6	Sphinx4	2+ Years	Expert
7	HMM Toolkit	1+ Years	Beginner
8	Microsoft Productivity Tools	10+ years	Expert
9	.Net platform (C#, VB)	10+ years	Expert
10	ASP.NET MVC/Web API	3+ years	Expert
11	Java (J2SE)	10+ years	Expert
12	Java (J2ME)	5+ years	Expert
13	Java (J2EE)	5+ years	Intermediate
14	MS SQL	10+ years	Expert
15	Oracle	5+ years	Intermediate
16	Ruby	1+ years	Intermediate
17	Rails	1+ years	Beginner
18	Matlab	3+ years	Expert
19	Labview	2+ years	Expert
20	Scala	<1 year	Intermediate

21	Spark	<1 year	Beginner
22	R	<1 year	Intermediate
23	Python	7+ years	Expert
24	C++	7+ years	Expert
25	C	10+ years	Expert
26	Active Directory	3+ years	Intermediate
27	Linux/Unix	5+ years	Intermediate
28	Cisco/Asterix/Microtik networks	3 years	Intermediate
29	KnockoutJS/AngularJS	1+ years	Intermediate
30	Javascript/JQuery/XML/JSON	5+ years	Expert
31	HTML/5	10+ years	Expert
32	PHP	4+ years	Expert
33	MSAccess	10+ years	Expert
34	Android Java	2+ years	Expert
35	Swift	1 year	Intermediate
36	Kivy	1 year	Beginner
37	Agile/TDD	2+ years	Expert
38	MySQL	5+ years	Expert
39	MEAN Stack	1 year	Intermediate
40	SAPB1	5+ years	Expert
41	CNC	2+ years	Intermediate
42	Photoshop	<1 year	Beginner
43	Unity	1 year	Beginner
44	WebGL	1 year	Beginner
45	F#.NET	5+ years	Intermediate
46	Git/Subversion	1+ Years	Intermediate
47	Microsoft Project	7+ Years	Expert