# AKUJUA ONYEKACHI

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Web Application technologies:
J2EE, Spring, Apache Tomcat, GO, Hibernate, Node.js
Mobile Platforms Developed For:
Android, Blackberry, Symbian phones, J2ME Phones
Databases:
MySQL; Microsoft SQL Server; Oracle; Sybase; PostgreSQL
Operating Systems:
Windows/MS DOS; Linux - Centos
Expert level Programming Languages/Frameworks:
NodeJS, NestJS, Elixir, Java, PHP, Laravel, C, Javascript, AngularJS, Flutter
Others
Agile (Scrum) Methodologies. ● Java, and Java EE Application Development with JSR-286 portlets (and associated technologies like Maven, and Hibernate). ● Job scheduling with Java Quartz. ● Front End Web Design and Supervision (HTML, CSS, JS). ● Spring Boot ● SOAP, AXIS 2 and JAXB, and Restful (Jersey) webservice development. ● Data security strength and algorithm development. ● Webservice security. ● Amazon Webservice integration. ● Deployment in CentOS Linux Servers. ● Android Application Development. ● Eclipse. ● PostgreSQL, ● MySQL, ● MSQL, ● CentOS, ● AngularJS, ● Coordinated internship for junior developers. ● Developed fully functional enterprise applications for banks, government agencies, and companies in Nigeria, Ghana and Zambia.● SSO● Laravel ● Angular JS

## PERSONAL STATEMENT
A professional and skilled software engineer. I do have over 10 years working experience as a software engineer which has helped me get involved in the design, development, testing, support of software solutions using software development methodologies. I do also have a Software Engineering degree at the Masters level and studied Electronics Engineering at the undergraduate level.

## EDUCATION & QUALIFICATIONS
Sept 2011 – May 2013: MSc. Software Engineering. University of The West of England.
Sept 2003- Sept 2008: Second-Class Upper Honours, B.Eng. Electronics Engineering. University of Nigeria, Nsukka.

## RELEVANT WORK EXPERIENCE
**Probase Limited, Lusaka. Zambia**
Contract Software Engineer –February 2017 to December 2021
Design, develop software solutions for the fintech company revolving around electronic fund collections. These solutions cut across different sectors which include banking, transportation, ecommerce, and the government.
Projects Handled

❖ Design and Development of a Microfinance Fixed Desposit & Loan Management system for the following banks and financial organizations - Microfinance Zambia (MFZ) , LAXMI
  Developed the web administrative end and the USSD application that integrated with a telecommunication provider (AIRTEL) for mobile money payments.
  *The application was developed using Elixir*
❖ Design and development of Electronic Tolling System – an electronic system which the toll gates (managed by National Road Fund Agency) in the country make use of to collect toll fees from motorists. Payments are made by motorists using pre-funded NFC cards.
  *The server application was developed using Spring Micro-services while the application running on*

_the POS devices was built using Ionic framework._

❖ Design and development of Tweende – a mobile taxi application enabling taxi drivers provide services to passengers needing a ride.
_Developed using Ionic framework for the mobile client end and NodeJS and NestJS for the backend part of the system_
- Design and development of Probase Marketplace – an ecommerce SaaS platform enabling shops/vendors spin off online shops to sell their goods/services.
_Developed using Laravel framework._

❖ Design and development of Zambia Railway Limited booking system – an electronic system which passengers will use to purchase train tickets either at the counter through vendors using POS devices or on the web.
_The server application was developed using Spring Boot micro-services. Authentication was implemented using JWT._
- Development of NatSave online banking system – Online banking system for the NatSave bank enabling customers carry out banking activities online. Banking activities include Balance enquiry, funds transfer, bill payments, bulk and scheduled payments, card and cheque services etc.
_The banking application was developed using Spring Boot application framework._

❖ Development of PrimeFour Zambia Microfinance System – Customized Mifos X open source platform to fit the clients requirements. Mifos X is an open source technology platform focused on providing software solution to financial service needs of microfinance banks who are focused on the poor.
Modules customized include the loan management module, customer management module etc.
_Mifos X is developed using a combination of JAX-RS, Spring, MySQL. The web application front end is developed using AngularJS._

❖ Design and development of Road Traffic and Services Agency portal – An electronic system enabling vehicle owners pay their road tax and purchase vehicle license.
_Developed Using Laravel framework_

❖ Design and Development of Bevura a mobile Fintech application for customers to carry out financial transactions like Funds Transfer, bill payments, Village Banking, etc
_The application was developed using Flutter, NodeJS, Java, GO_

**Etranzact, Accra - Ghana**
Contract Software Engineer – Oct 2016 to Dec 2016
Management and update of android mobile applications and integration of the company's product webconnectplus to use Flutterwave's payment gateway.
Projects Handled
- Management and Update of Android Mobile applications – Requirements from Ghanian banks (First Atlantic Bank, Bank of Africa, UBA, Access Bank) for changes to their mobile applications were handled as directed by the Etranzact staff. These requirements revolved around addition of new features to the application or updates on current features.
- Flutterwave payment gateway integration – This project involved integrating Etranzacts payment gateway webconnectplus to Flutterwaves payment gateway.
This enabled payments using VISA/MASTERCARD (for vByv and non vByv cards) on the webconnectplus platform.

**Probase Limited, Lusaka. Zambia**
Contract Software Engineer –July 2016 to Oct 2016
Design and develop payment switch – Probasepay (http://probasepay.com), a SaaS modelled Educational InstitutionManagement System (http://shikola.com).
Projects Handled
- Design and development of ProbasePay – a payment switch and gateway for the company. The payment switch handles card payments via VISA/MASTERCARD in addition to the company's payment card – EagleCard. The payment gateway also handles online banking integration enabling merchants

integrate to the payment gateway to receive payments on merchant website. Other payment features available on the payment gateway include payment through mobile money, payment using an ewallet developed on the payment platform and payments over the counter at banks.

The Payment Gateway also provided a means through which End of Day settlement advice can be provided to the banks to carry out settlement of merchants.

The application was developed using Java and PHP. – http://probasepay.com

- Design and development of Shikola – a software application that runs using a SaaS model. The Shikola application enables schools - K12, Colleges and Universities setup a web presence on their own providing these schools with the necessary tools to run their schools online or within an intranet. The application was developed using PHP. – http://shikola.com

**Emerging Platforms, Abuja**
Enterprise Software Solutions Architect- October 2014 to May 2016
Design, develop software solutions, web applications and web designs according to specifications of the client. Developed System Requirement Documents for the development of software applications. Managed the software development team to ensure delivery and development of software according to specifications agreed and to high quality.

Lead the software development team, ensuring they delivered on software projects.
Duties & Projects Handled
- Design and Development of the Electronic End-User Certificate Issuance system used by the Office of the National Security Adviser (ONSA) to issue certificates to members of the public for the importation of arms – https://euc.nsa.gov.ng
*Developed using Liferay J2EE framework*
- Portal Harmonization of National Open University (NOU), Nigeria website – http://nou.edu.ng<sup>(between 2014 and 2016)</sup>

*Developed using Laravel.*
- Implementation of Single-Sign on across different domains on the NOU platforms
*Developed using OpenAM, Java*
- Design and Development of Election Monitor used during the last elections-
http://electionmonitor.com.ng. *Developed UsingPHP*
- Design and development of computer based testing system used by Kano State University of Science & Technology for examinations.
*Developed UsingPHP*
- Design and Development of Alumni Management System – myalumni.co currently being used by Covenant University – http://covenant.myalumni.co
- Design and Development of Hasibiti Hospital Management System – http://hasibiti.com

**Probase Limited, Zambia**
System Developer- June 2014 to September 2014
Contract project for the development of an electronic system (SmartPay) enabling Customs Agents access and pay assessment fees/dues for items brought into Zambia through ports in Zambia. Electronic system makes use of the various banks banking interface to enable payments. Assessment fees are assessed from ZRA (Zambia Revenue Authority).
Duties & Projects Handled
- Development, and deployment of the system for four banks - Stanbic IBTC, Standard Chartered, Bank ABC, and Barclays Bank in Zambia.
- Additional work included making provision for domestic taxes to be paid on the same platform.
- Systems were developed usingLiferay framework, Enterprise Java/ SQL database, SOAP WS.

**ByteWorks Technologies Ltd**
Lead Developer - Oct 2013 - June 2014
Worked on Enterprise, Mobile applications in addition to integrating third-party systems to core

applications.

Duties & Projects Handled

- Native Mobile applications developed to cater for Android and Blackberry phones which connected to web applications using Java Enterprise technologies. Mobile applications enabled the game application to be played on the phone - Mobile applications can be downloaded from - http://www.ngalaba.com.ng
- Development of the mobile-web version of the Ngalaba application to enable playing of the game on the web using mobile phones rather than native mobile applications
- Worked on enterprise web applications for Corporate Affairs Commission. Involved in the development of their web portal application to enable companies carry out pre-incorporation and post-incorporation activities on the portal. - http://services.cac.gov.ng/
- Worked on the firms web application for gaming - http://www.ngalaba.com.ng
- Databases used during the period include PostgreSQL, and MSQL
- Integration of NIBSS - (Nigeria Inter-Bank Settlement System) payment system to the CAC portal to enable online and offline (EBills) payments
- Development of BytePay & OasisPay - a demo application that acts as a payment gateway for merchants wishing to make payments on the web
- Involved in the Nigerian Identity Number project as a developer for Byteworks working on the Integrations section of the project. Integrations would cover integrations to payment systems, Email and SMS notifications and any other required third-party integrations.


## eTranzact International Plc – Lagos, Nigeria

Software Engineer/Developer - Oct 2010 - Oct 2011

Gained considerable experience while working on a number of software projects. These include mobile applications for Android, Blackberry and MIDP platforms, and Point-of-Sale devices. Also gained some experience on interfacing with the clients/customers and the firm.

Duties:

- Worked on Mobile applications developed to cater for J2ME enabled phones and Android phones which connected to Enterprise applications using J2EE/Tomcat technologies
- Maintenance and development of ANDROID MOBILE, SYMBIAN, RIM applications provided by the firm to banks in the country. The mobile applications enabled bank customers carry out functions such as Checking Balance, Funds Transfer, Cheque Confirmation, Bill Payments, amongst other functions as relating to the client needs.
- Maintenance and development of POS software running on DEMCO POS devices to enable eTranzact clients perform functions like Airtime Purchase, Bill Payments, Funds Transfer etc.
- Also developed POS software using the POS hardware SDK which required using C programming language

Projects Worked On:

- Mobile application projects managed during the period include AccessMobile (Mobile Application for Access Bank Nigeria), AccessPayMerchant (Mobile Application for Access Bank), AsoSavings (Mobile Application for ASO Savings Bank), ChaseKenya (Mobile application for Chase Bank Kenya), e-Mobile (Mobile application for Spring Bank), eTzMobile (eTranzact mobile application), eTzEnergyBankGH (Mobile application for Energy Bank Ghana), FcmbMobile (Mobile Application for FCMB Bank), FidelityMobile (Mobile Application for Fidelity Bank), IBTCMobile (IBTC Mobile application), LCCMobile (Mobile Application for LCC firm), MTNRicaMobile (Mobile application for RICA South Africa), NBLMobile (Mobile application for Nigeria Breweries Limited), NestleMobile (Mobile application for Nestle), UMobile (Mobile application for UBA), UnionMobile (Mobile application for Union Bank), UnityMobile (Mobile application for Unity Bank), CitiMobile (Mobile application for Citi Bank), Etz Android Mobile (Android version of eTranzacts mobile application) The mobile applications were developed using Java programming language and using J2ME MIDP SDK tools and Android SDK tools for MIDP enabled phones and Android phones.
- Point of Sale device applications worked on during the period include SA POS Application (Application handles transactions for eTranzact's South African branch), MTN POS Application (Application handles transactions pertaining to MTN Post-Paid payment for MTN clients), Dangote POS

Application (Application handling transactions pertaining to Dangote Transactions), DDC/Etranzact Default POS Application (Application for DDC client), Etranzact POS Ghana Application (Application for eTranzact Ghana Office), Flour Mills POS Application (Application for FlourMills factory), Etranzact Zimbabwe POS Application (Application for Zimbabwe office), Oceanic Bank Nollywood POS Application (Application for Nollywood Cinema ticket purchase). The point of sale device applications were developed using C-programming language and made use of the SDK provided by the Point of Sale device manufacturer – DEMCO. Applications developed connected to Etranzact's server by initiating connections to the server using telecommunication SIM cards in the device.

**Huawei Telecommunication Limited. – Lagos, Nigeria**
<u>Software Developer (Research & Development unit) - Apr 2010 - Oct 2010.</u>
Gained some experience in the Telecommunication sector while working on software projects for telecommunication firms.
<u>Duties:</u>
- Develop help flows for telecommunication firms like MTN, GLO, Starcomms etc in the country.
- The help flows make use of IVR enabled customers to call a particular line which would help them carry out functions like checking their balance on phone, or redirecting them to an online customer representative.
- Involved in maintaining telecommunication systems like billing systems, VAS systems of telecommunication operators in the country e.g. MTN, GLO, Visafone, Airtel, Starcomms.
- Worked with Oracle Databases during the period.
<u>Projects Handled:</u>
MTN Call Centre Help-flow design and installation, GLO Call Centre Help-flow design, Starcomms Call Centre Software setup and maintenance Nigeria National Petroleum Corporation – Lagos, Nigeria Compulsory National Service as a Contract Review Officer Trainee - Mar 2009 - Mar 2010 Gained some experience in the Oil & Gas sector.
<u>Duties:</u>
Aid in the contract awarding process. Process involved advert, bid tendering, prequalification stages for the awarding of contracts to firms intending to work on Joint-Venture projects between NNPC and Oil firms in the Upstream and Downstream sector e.g. Shell, Mobile, etc

**Other Firms worked with:**
- Seamfix Nigeria Limited - Lagos, Nigeria
  Software Developer Trainee - Oct 2008 - Feb 2009
- Netpoint Mobile Technologies, Enugu State
  Software Developer - June 2006 - Oct 2008

**REFEREES:** Available on request.