

JOSEPH GITONGA NJERU

P.O Box 69362 – 00400

Tel: +254 724384843

Email: josetosh06@gmail.com

LinkedIn: <https://www.linkedin.com/in/joseph-njeru-48026319/>

GitHub: <https://github.com/josetosh>

CAREER PROFILE SUMMARY

As a multi-skilled and strategic Software Engineer expert, excelling in developing and deploying software that will help drive improvements towards reliability, availability, performance and efficiency of the business. My experience has leveraged my expertise in software engineering, software development, database programming and leadership among others.

Led by my strong communication, problem-solving, critical thinking and team working skills I have established a unique ability to steadfastly manage duties and responsibilities pertinent to the growth of a company. My focus now is to secure a position where I will utilize my expertise in ensuring that software deliverables comply with quality standards and are completed on time.

EDUCATION BACKGROUND

Computer Pride (Oracle 11gR2 Database Administration) – DBA II; May 2013 to July 2013.
Bachelor of Science in Computer Technology: Jomo Kenyatta University of Agriculture and Technology; 2006 to 2009.

Kenya Certificate of Secondary Education: Moi High School Mbiruri; 2001 to 2004.

PROFESSIONAL COURSES PROJECTS UNDERTAKEN

ITIL Certification: Institute of Advanced Technology (IAT); 2005 to 2006

KCB Ltd Projects

- Vooma Implementation (KCB Digital Platform).
- KCB-MPESA Migration to Vooma Platform.
- Mobi Migration (KCB Mobile Banking System Migration into Vooma Platform).
- KCB(Rwanda)-MTN Savings & Loan Partnership Implementation.
- KCB Uganda BPM Project Implementation; automation of online customer creation and account opening.
- Implementation of Tanzania Instant Payment System (TIPS) KCB-TZ Integration; implementation of interoperable digital payment platform operated by the Bank of Tanzania which offers real-time transfers or payments of funds between Financial Service Providers (FSPs), both banks and non-banks such as e-money issuers.
- ATM Services Enhancements, Agency Banking Enhancements and Automation of Reconciliation for KCB Uganda.

Indra Ltd Projects

- Implementation of Integrated Commercial Management System for Electricidade de Moçambique (EDM); implementation of both pre-payment and post-paid electricity vending system.
- Implementation of Integrated Commercial Management System for Electricity Company of Ghana Ltd (ECG); implementation of both pre-payment and post-paid electricity vending system.

KEY SKILLS AND COMPETENCIES

- Implementation of a pre-payment electricity vending system for ZETDC (Zimbabwe Electricity Transmission and Distribution Company).

Paysure Ltd Projects

- Visa Integration via I&M Bank.
- MasterCard Integration via KCB.
- Interswitch Payment Gateway Integration.
- Clearing and Reconciliation via Chase Bank.
- **Software Development:** Experience in Design and development of secure, testable, reusable, and maintainable code.
- **Knowledge and experience with Agile Development practices, Agile software delivery and scrums.**
- **Experience in mentorship of Junior developers.**
- **Experience and good understanding of SOA practices, service oriented and micro-services architectures.**
- **Software Design:** Experience in software development life cycle (SDLC).
- **Experience in data driven decision making.**
- **Knowledge and experience of working with Data Structures and Algorithms.**
- **Experience in AWS and Azure Cloud Platforms.**
- **Experience in CI/CD practices.**
- **Web Programming:** Experience in using angular, Thymeleaf and JavaServer Faces (JSF) front-end frameworks.
- **Programming Language and Frameworks:** Efficient in using the programming language such as Java (JSE, JEE {Java Beans (EJB3+), JSP, JSF, JSF for Mobile, PrimeFaces, PrimeFaces for Mobile, Oracle ADF, JPQL, Jasper-reports & iReports, JPA 2.0-ORM Persistence tools (TopLink, EclipseLink & Hibernate Framework), JDBC, Servlets, Cryptography, SOAP Webservices and Restful Webservices}, JMS, JUnit, Java Card Programming, Play Framework), JavaFX, Python & Python Django web framework, C/C++, PowerScript Language and shell scripting. I am also able to develop C++ GUI applications using the C++ Qt framework.
- **Database Programming:** Excellent in Database programming using MySQL, Oracle, and PostgreSQL, SAP Sybase Adaptive Server Anywhere; I have also explored working with MongoDB NoSQL database.
- **Database management:** Well-versed in using the system software for creating and managing databases which provide users and programmers with a systematic way to create, retrieve, update and manage data by use of tools.
- **Leadership skills:** Greatly exploited leadership skills with the ability to provide leadership and strategic direction to the organization, guiding it to achieve its strategic goal, ensuring that staff are motivated towards effective service delivery and achieving the organization's greatest potential.
- **Troubleshooting and analytical skills.**
- **Flexibility:** Can work in a busy and challenging environment by maintaining calm under pressure and ensuring that I think through any possible threats that can occur in systems and plan for them before they happen.

ADDITIONAL SKILLS

- **Communication Skills:** Capability to relate well with employees and clients who need help with navigating their systems considering that every employee has a level of computer competency.
- **Experience in code and system design review.**

- Backend Development (Java Core, Spring, SpringBoot, Spring Security, JPA, Spring Cloud (API Gateway, Service Discovery, Circuit Breaking and Distributed Logging), Restful Microservices and Event-Based architecture, SOAP Webservices, Unit Testing, Messaging (ActiveMQ)).
- Versioning (Git, SVN).
- Databases (Oracle, MySQL, Postgres, MongoDB, Redis).
- CI/CD (Maven, Jenkins, Docker).
- Cloud (OpenShift on Azure, Spring Cloud).
- FrontEnd (Angular and Thymeleaf).
- Application Servers (Glassfish, JBoss, Wildfly, Tomcat).

WORK HISTORY

Senior Software Engineer

KCB Bank Group; October 2016 – To Date

Duties and Responsibilities

- Developing Digital Applications and solutions.
- Documenting, designing and developing solutions for the KCB Digital Platform, Internet Banking, Mobile Banking, and Agency Banking systems and other alternative channels.
- Implementing high availability, fault-tolerant strategies, and load balancing techniques based on IBM Integration Bus suite of products capabilities.
- Managing middleware environments and providing support to application and business teams and participating in quality assurance activities for integration-related solutions before they are transitioned to production.
- Working independently and collaboratively with other support teams to troubleshoot integration platforms/server performance issues and tune the environment based on findings and achieve desired outcomes.
- Preparing and installing solutions by determining and designing system specifications, standards and programming.
- Interacting closely with business owners and other key stakeholders to understand and document functional and non-functional requirements
- Developing Systems and Interfaces using alternative Technologies to drive business.
- Working with Enterprise Service Bus for service orchestration and systems integration.
- Specifying and ensuring application controls are incorporated during the design of the software to check on risk exposure.
- Testing products in controlled, real situations before going live. E.g Unit Testing microservices.
- Documenting and demonstrating solutions by developing documentation, flowcharts, layouts, diagrams, charts, code comments and clear code.
- Analyzing, developing, and implementing Vooma Mobile Wallet.
- Taking part in scrum agile ceremonies: standups, retrospectives, grooming, planning and sprint reviews.

- Peer review of code.

Key Achievements

- Increased bank deposits via savings through the KCBR-MTN partnership.
- Improved bank's customer experience via automating the customer onboarding and account opening process.
- Improved the bank's mobile experience by migrating it to a better-performing platform.

Software Developer

Indra Limited; March 2014 to September 2016

Duties and Responsibilities

- Debugging PowerBuilder applications, doing further improvements and customizations as required by clients.
- Liaising with software QCT (Quality Control Team) to ensure any software product worked on meets the clients' requirements/specifications and also Indra Ltd software standards processes are adhered to. Such included ample testing before major releases, use of versioning to track software product changes, commenting on code and using JIRA to track issues and daily work logs.
- Debugging, modifying and creating new batch programs in C Language and Proc *C for automating various tasks such as generating electricity bills for ECG (Electricity Company of Ghana) and EDM (Electricidade de Moçambique).
- Automating sending of electricity bills as emails and SMS to customers using shell scripts.
- Internationalizing application user interfaces such as Portuguese and French.
- Working with Oracle database, making changes if need be to realize any software functionality as per clients' requirements.
- Following functional documentation to develop new functionality into existing software products and coming up with technical documentation report for the testing team/QCT (Quality Control Team).
- Multithreading Java-based applications for processing electricity prepayment payments and sending SMS messages to customers via SOAP Webservices.
- Working on Spring Batch (*using maven structure*) applications for processing and moving massive data to be used for the generation of various reports (Using PowerBuilder OpenReports and Pentaho reporting tool).
- Working within a scrum software/product development strategy/framework.
- Creating various reports on business analysis using PowerBuilder's OpenReports and Pentaho reporting tool.
- Working on a project of converting an application using JSF to using AngularJS in the front end.

Key Achievements

- Learnt to work within a huge team via collaboration.
- Implemented projects on time and prevented the company from being penalized for failed delivery milestones.

Lead Java EE Applications Developer

Paysure Limited; June 2012 to February 2014

Duties and Responsibilities

- Creating a module of interfacing with the Kenswitch payment system via a soap web service to authenticate customer card details and authorize transactions to proceed.
- Creating a module for processing VISA and Mastercard payment transactions from iVeri (South Africa) via I&M bank.
- Interfacing with KCB system for acquiring VISA/MasterCard payments on behalf of merchants for Paysure Ltd.
- Creating a module of aggregating online merchants under an M-Pesa Paybill and linking to Safaricom IPN via their soap web-service to enable merchants to receive M-Pesa Paybill payments.
- Developed an android app for swiping credit cards for VISA and Mastercard payment transactions processing via soap webservice.
- Creating desktop based and mobile based interfaces using JSF and 3rd party libraries such as primefaces & richfaces, Servlet 3.0, JSP, XHTML, HTML, JSON, XML, jQuery, jQuery UI, jQuery Mobile and AJAX.
- Developed customized Kenswitch and VISA/Mastercard payment modules in PHP for Prestashop and Magento eCommerce shopping carts for merchant portals which interfaced with a Paysure Ltd soap webservice to facilitate payment on merchant checkout.
- Administering Paysure Ltd PostgreSQL database and making changes based on business logic requirements.
- Working with EJB3 for business logic, Servlet 3.0 and JPA (TopLink) for persistence.
- Helping developers of merchant portals interface with Paysure via soap webservice.
- Implementing modules security using JAAS and Realms on the Glassfish application server.

Key Achievements

- Learnt accountability and ownership by being a full stack developer by working on products end-to-end.

OTHER PAST EXPERIENCES

Web Developer: Intercare Solutions: 2011 to 2012

Fusion Communication Systems: June 2011 to February 2012

Attaché: Kenya Civil Aviation Authority (KCAA); February to May 2009

Attaché: World Vision Kenya in Karen; March to May 2008

MEMBERSHIPS

- Member of JKUAT's SCOSIT (Society of Computer science and Information Technology)

CONFERENCES ATTENDED

- Attended 2006 ICT conference at Strathmore University

REFEREES

References available upon request.