


# JOEL BARASA

CLOUD SOLUTIONS ARCHITECT

 Nairobi, Kenya

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## + LINKS

### LinkedIn

<https://www.linkedin.com/in/jbarasa/>

## + EDUCATION

- Egerton University  
Nakuru, Kenya  
2011

### BACHELOR OF SCIENCE

Computer Science

## + SKILLS

OpenStack

Amazon Web Services

Google Cloud Platform

Docker

Kubernetes

Red Hat Openshift

Kibana

Prometheus And Grafana

SonarQube

JavaScript/NodeJS

Databases

Shell Scripting

Blockchain

JBoss

Weblogic

## + ABOUT ME

A cloud architect with 10+ years of experience driving information management strategy. Strategized, designed, and deployed innovative and complete API and data strategies for financial services industry. Seeking to leverage high-level understanding of Cloud computing global infrastructure and service migrations to facilitate organizations to enjoy cloud services.

Exceptional knowledge in analyzing, designing, developing and maintaining innovative & creative software solutions that enable financial institutions adopt and maintain a mobile-first approach to savings, investments, credit and insurance, targeting retail and SME customers with data driven financial solutions. Directly involved in integration of digital financial services products for purposes of managing credit exposure through various Mobile Savings and Lending platforms.

Top-notch experience in architecting integration solutions together with developing SOAP and RESTful web services using both Service Oriented and Microservices architectures. I am highly experienced in API-driven design and messaging, service component architecture & core SOA design, Web Services (SOAP & REST using modern integration standards such as XML, JSON, SOAP, WSDL, RAML), Transformations, Service Orchestration, JCA Adapters, Java Callouts, BPEL, Mediator components, Oracle cloud-based integration technologies: OIC, OCS and SOA cloud

## + WORK EXPERIENCE

- INFOBIP  
Nairobi

NOV 2021 - PRESENT

### SENIOR TECHNICAL PRE-SALES ENGINEER

- Work closely with product management and feedback regional trends, any perceived gaps and assist with product roadmap and strategy.
- Assist in the global sales of Infobip's products and projects by demonstrating the products, structuring solutions and supporting bids.
- Develops and manages relationships in strategic markets and accounts including building customer networks, especially with C-levels and senior executives.
- Perform hands-on design work to prove INFOBIP's software capabilities to customers during the evaluation (Proof of Concept) process.

## + LANGUAGES

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English

Swahili

- Implement new ways of working, improve internal processes.
- Provide internal sparring, help review outputs and provide a fresh perspective.

- NCBA Bank JUN 2019 - OCT 2021  
Nairobi

### SOFTWARE INTEGRATIONS TECHNICAL LEAD

- Generate design and architect Cloud security solution to meet business requirements.
- Design, prototype and deliver cloud-native solutions, leveraging cloud-specific (AWS/Azure/GCP/OpenStack) platform with rich services offering.
- Serve as a cloud evangelist and consultant to provide technical guidance on AWS/Azure/GCP/OpenStack design, governance, performance developed deployment scripts from Git repository to GCP App Engine.
- Develop an evaluation criteria to compare technologies considering technical, commercial and societal aspects.
- Advised and evaluated data retention and governance using cloud technologies
- Developed tailor-made enterprise architectural blueprints, with clear descriptive documentation for all stakeholders.
- Lead architectural design, development, and implementation of data integrations.
- Developed and deployed Docker containers on Kubernetes.
- Ensure technical standards and architectural best practices are maintained and consistently followed by all team members.
- Spearhead release/implementation activities, including providing input into implementation planning efforts.

- Jubilee Insurance DEC 2018 - JUN 2019  
Nairobi

### SYSTEMS INTEGRATIONS DEVELOPER

- Designed, developed and maintained integration architecture.
- Collaborate with product and technical teams to determine solutions that drive additional business value.
- Rapidly Prototype working models and solutions to obtain business alignment on approach.
- Writing Junit/integration test cases to validate the code quality and code coverage.
- Developed, tested, maintained REST and SOAP web services for WSO2 Enterprise Service Bus (ESB).
- Individually developed code for automation of ESB web services.
- Responsible for deploying team's code from sandbox to testing and QA environments.
- Assisted in troubleshooting/debugging ESB problems.
- Design, Code, test, debug, implement and document complex WSO2 pipelines.

- Implementing service transformation, routing, enrichment and orchestration in WSO2.

- Indra Systems OCT 2012 - NOV 2018  
Nairobi

#### **SENIOR SOFTWARE ENGINEER**

- Driving features from inception to industry adoption.
- Collaborating with internal and external partner teams to drive clarity before and during execution while coordinating communication across partner teams.
- Partnering with developers in my team to remove barriers and enabling them to complete their work efficiently.
- Analyze and translate business requirements into technical designs.
- Designing, developing, deploying and troubleshooting software solutions using technologies such as Java, HTML5/CSS and JavaScript.
- Driving activities such as answering questions about the application's functionality, diagnosing problems (such as investigating and replicating bugs), fixing bugs, coordinating user testing and enhancing the application based on user requests. Enhancements cover the realm of simple cosmetic changes to the UI, reporting, data exports and significant changes or additions to the application's functionality.
- Developing and managing a release schedule for fixes to non-critical bugs and enhancement requests. Regularly communicating with users on the status.
- Documenting designs, development, testing approaches, knowledge and best practices.
- Software modelling and simulation, software code analysis, code metrics identification, system risk analysis and software reliability analysis.
- Maintained and enhanced codebase by writing patches to bugs and extending features.

## **+ RELEVANT PROJECTS**

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- KENYA AIRPORTS AUTHORITY DEC 2012 - MAY 2013  
**IDENTITY MANAGEMENT SYSTEM**

Developed and implemented a web based Identity Management system for the Kenya Airports Authority integrated with access control system to manage and control access to all airports' premises. The solution is implemented in all airports across the country.

- KENYA DEFENCE FORCES APR 2014 - DEC 2014  
**BIOMETRIC ID CARD ISSUANCE SYSTEM**

Designed and developed a web based biometric ID card issuance System for the Kenya Defence Forces integrated with a Public Key Infrastructure solution to provide data protection and tamper-proof integrity via digital signatures.

- KENYA POWER FEB 2015 - OCT 2015  
**ONLINE UTILITY BILLING SYSTEMS**

Developed and implemented an online customer service module for Kenya Power used by customers to check bill amounts, check work requests status and progress, download bill payment statements and log in complaints. The system is accessible via <http://41.203.223.142/KEIOPE> or <http://contactcentre.kplc.co.ke/KEIOPEN>

- ZESCO, Lusaka, Zambia NOV 2015 - FEB 2017  
**STORES PROCUREMENT SYSTEM**

Part of a team of 4 consultants charged with the design, testing and implementation of an iPlanet HTTP Web Server Based interface between the Stores and Procurement System and the Plant Equipment Maintenance System. Java servlets and XML functions on a J2-Software Development Kit (J2-SDK) Software have been used to ZESCO link the two Systems

- Telefonica, Madrid, Spain JAN 2018 - AUG 2018  
**TELKOM BI SOLUTION**

As part of engineering team, played integral part in architecture and development of SaaS product that delivered analytics to Telefonica company. The product imposed multi-tenancy and integrated platforms such as MicroStrategy and IBM Netezza for data processing, SQL Server and ASP.Net MVC for web application services. The web front also incorporated robust visualizations provided by Bootstrap and Highcharts JavaScript libraries.

Roles:

- Engineered server modules interfacing ReST based services and MicroStrategy.
- Built batch workflow using Automate and Quartz.Net for processing big data hosted on Netezza and SQL Server.

- NCBA GROUP, Nairobi MAR 2020 - JUN 2021  
**LOOP CARD'S 3D SECURE**

Designed, developed and maintained integration with VISA's Real-Time Data Exchange (RDX) API called 3D Secure integration . This is a payer authentication, which is a security protocol that helps to prevent fraud in online credit and debit card transactions.

## + INDUSTRIAL EXPERIENCE

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- ENERGY & UTILITIES
- NATIONAL SECURITY & DEFENCE
- INSURANCE
- FINANCIAL SERVICES
- PUBLIC HEALTH AND TRANSPORTATION

## + REFERENCE

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- AVAILABLE ON REQUEST