

## **EDWIN SHITAKWA SALIKHO**

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## **Summary**

Passionate about Cloud computing and Software engineering. Adept in bringing forth expertise in design, maintenance and managing new and existing cloud infrastructures. Experience with the latest cutting edge software development tools and procedures. Able to effectively self-manage during independent projects as well as collaborate as part of a productive team.

## **Technical Skills**

- Amazon Web Services (AWS)
- Java
- Web Framework: Express.js
- Docker
- Debugging Android and Nodejs Applications
- Deployment
- MYSQL and MongoDB databases
- REST APIs
- Git and GitLab
- HTML and CSS
- Android Studio, Eclipse and VScode editor
- Platform: Linux, Windows

## Core Competencies

- Defining a solution using architectural design principles based on customer requirements
- Ability to create a REST API service that can be consumed by a web client
- Ability to design and develop a fully frontend website
- Ability to design, develop and debug an android application using Android Studio and Java programming language
- Hands on Docker and containerization
- Ability to provide implementation guidance and best practices to the organization throughout the life cycle of a project.
- SQL administration skills

## Projects

- Developed an android app that displays different food recipes using edaman api (<https://play.google.com/store/apps/details?id=com.tdbsoftrecipesappv1.smartrecipe>)
- Used Express.js framework to develop REST API for an E-commerce site ([https://github.com/edwin001-tech/COMTRA\\_API](https://github.com/edwin001-tech/COMTRA_API))
- Used Firebase Authentication and Storage to develop an android authentication app (<https://github.com/edwin001-tech/FAuth.git>)
- Dockerized two spring-based microservices and ensured they are communicating with a mysql server container. (<https://github.com/edwin001-tech/CreditCard-CreditScore>)
- Designed and created logic to post authentication data from an android client to a Django server using android's Volley Library. (<https://github.com/edwin001-tech/Volleytest>)
- Using Amazon's unlimited simple storage service (S3) to host a static website where individual web pages include static content. Also using this service to store developer codes before hosting them on virtual servers (EC2) for dynamic web apps.
- Used Amazon's Virtual Private Cloud (Amazon VPC) service to launch AWS resources in a logically isolated virtual network that I designed. Created a public and a private subnet and used the private subnet for databases and web servers to protect the resources from the internet. Elastic Load Balancing was used to automatically distribute incoming application traffic across multiple targets.
- Used CloudFront, a fast content delivery network (CDN) service to securely deliver my demo application to "customers" globally, thereby enabling low latency and high transfer speeds for the application.

## Experience

SEPTEMBER 2020- NOVEMBER 2020

**Digital Divide Data, Nairobi, Kenya- AWS Cloud Solutions Architect Trainee**

#### AWS Setup & Architecture

- Evaluated proposals & recommended the best technical solutions to migrate the application to AWS.
- Created the architecture and created the Cloud Formation template to facilitate deployments.
- Provided complete infrastructure solutions to 30+ clients including configuration Storage components.

#### Cloud Management & Troubleshooting

- Deployed the Elastic Load Balancer & configured HTTPS certificates & managed scalable & highly available systems on AWS.
- Performed Monitoring and Event Management on AWS Workloads while also facilitating patching and continuity within an AWS Account.
- Actively managed, improve, and monitor cloud infrastructure on AWS, EC2, S3, and RDS, including backups, patches, and scaling
- Engaged in production applications on AWS & initiated amendments according to the customers' feedback & surveys from customer reviews.
- Architecting Secure VPC Solutions in AWS with the help of Network ACLS, Security Groups, Public and Private Network Configurations, while also designing an effective backup strategy according to the client requirements & Specifications.

#### Devised & developed scalable, highly available, and fault-tolerant systems on AWS.

- Played a key role in selecting appropriate AWS service based on data, compute, database, or security requirements
- Analyzed client requirements & determining system architecture requirements to achieve business goals.

#### Backup and Restore

- Created Snapshots and Amazon Machine Images (AMIs) of the instances for backup and creating Instance clones.

#### Identity and Access Management

- Experience in managing and Maintaining IAM Policies for Organizations in AWS to define Groups, Create Users, Assign Roles, and define rules for least Privilege role-based access to AWS resources.

## Databases

- Provisioned and Managed Highly Available, Highly Scalable, and Highly resilient Relational DBS (RDS) and non-relational DBs (Dynamo DB) in AWS.

FEBRUARY 2021- MARCH 2021

### **iLAB Africa, Nairobi, Kenya- Internet of Things Associate Developer**

- Creating and developing devices, sensors and software
- Researching, creating, testing and documenting IoT solutions
- Designing, coding and testing features of IoT devices
- Developing software that monitors and executes processes

## **Certifications**

- AWS Certified Solutions Architect – Associate
- iLabAfrica - Internet of Things Developer
- Packt Java Workshop

## **Education**

**REFERENCES**

Can be provided upon request.