

**MOSES OKOTH**  
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## SUMMARY

I am a Systems Engineer with extensive experience in Database Administration, Systems administration, Storage Administration, System Virtualization, System Automation, System support, Presales specialist and developing next-generation software solutions in Linux, Windows and UNIX environments.

## OBJECTIVES

To work in tandem with a team in an environment where I can act as valuable asset, improve my skills, and put them to use for achieving the organizations objective while gaining competitive skills in line with the changing world of IT.

## EDUCATION

2010 – 2014: Chuka University Bachelor of Science in Computer Science Second class honors upper division.

## EXPERIENCE

**Software Engineer**

MAR 2019- To date

*Atlancis Technologies ltd*

- ❖ Integration of application using C#.net and xml
- ❖ Lead optimization engineer for the development team
- ❖ Data Center Administration and Support.
- ❖ Database Administration.
- ❖ Exadata administration and support
- ❖ ASM Administration and support
- ❖ RAC Administration and support
- ❖ Application and data migration
- ❖ Database patching and upgrade
- ❖ Storage and backup administration
- ❖ Automation and Scripting
- ❖ Application optimization and correcting errors
- ❖ Source code compilation and automation.
- ❖ High Availability implementation and administration.
- ❖ Hyper-converged infrastructure Configuration, Administration and Support.
- ❖ Solaris System Administration
- ❖ SPARC System Administration.
- ❖ Application integration and programming.
- ❖ Oracle Engineered Systems Administration and support (T-Series, M-Series,).
- ❖ SUN StorageTek Administration (SL48 Tape Library, StorageTek 6100).
- ❖ Netapp installation and administration (FAS2020, FAS2050).
- ❖ HP ProLiant DL380 series Administration and configuration.
- ❖ Oracle Linux Enterprise Server Configuration, Administration and Support
- ❖ Web logic server installation and Administration.
- ❖ ZFS Storage Appliance Configuration, Administration and support

- ❖ IBM Servers Administration and configuration (v7000, x3650, x3400)
- ❖ EMC VNX 5100 Storage Administration
- ❖ Powerpath installation and configuration
- ❖ Unisphere Service Manager installation and configuration
- ❖ Troubleshoot customer faults to achieve fault resolution for incidents escalated.
- ❖ Undergo continuous technical skills update through certifications and training in the engineer's career roadmap within set timelines.
- ❖ Updating and managing SLAs

## Software Engineer

JUN 2016- FEB-2019

### *Indra Systema*

- ❖ Lead Engineer in recovering the production Database for Electricity Company of Ghana (ECG) for Commercial system management.
- ❖ Creation of database disaster Recovery site for Electricity Company of Ghana (ECG). Upgrading commercial System management for ZETDC (Zimbabwe Electricity Transmission, Distribution and Company) from Oracle Linux 5 to Linux 6.9.
- ❖ Installation of Ingrid System a Zimbabwe Electricity Transmission, Distribution and Company (Zimbabwe) a system that control all component of Electricity generation to transmission.
- ❖ Installation, configuration and deployment of version control system using Subversion and SVK to synchronize the software repositories in STL's Nairobi (Kenya) office and Madrid (Spain) office. This involved shell scripting, Perl scripting, configuring and Installing SVN, SVK, Samba, NFS, HTTPS, LDAP and FTP servers on Linux. Documenting the configuration and installation processes. In this project, I extensively used SSH, Linux and virtual machines. Documenting the installation and configuration processes.
- ❖ Integrating flat files and relational databases using Microsoft SSIS
- ❖ Administration insight of Business intelligence system.
- ❖ Installation and Configuring of Netapp Storage. Installation and configuring HP storage
- ❖ Installing and configuring NetBackup agents on windows, Linux and UNIX environments.
- ❖ Performing regular system backups for Oracle, MSSQL, HP-UX, Linux and windows systems using Symantec NetBackup and setting up Disaster recovery site.
- ❖ Configuring MSSQL high availability on database systems by configuring log shipping and database mirroring.
- ❖ Performance tuning for both Oracle and MSSQL databases.
- ❖ Creating RMAN catalogue and using RMAN scripts for backups and restores
- ❖ Installing and provisioning of Netapp storage.
- ❖ Hyper-V server administration tasks such as creation of Virtual machines, provisioning resources to already existing VMs, Hyper-V cluster backup and restoration using Symantec NetBackup.
- ❖ Integrating business intelligence system with Core banking, Human resource, card, customer relations and credit management systems with real time data synchronization.
- ❖ Installation, configuration and administration of Redhat Linux, Oracle Linux, Centos and Windows Server operating systems.
- ❖ Using LVM for logical volume management on Linux servers.
- ❖ Performance Tuning, Query Optimization, using Performance Monitor, SQL Profiler and other related monitoring and troubleshooting tools.
- ❖ Troubleshooting and resolving database issues such as database integrity, performance, blocking and deadlocking, replication amongst others.
- ❖ Management of indexes, partitions, statistics, tablespaces, datafiles and archive logs.
- ❖ Troubleshooting TSQL and designing (stored procedures, functions, tables, views, triggers, indexes, constraints).

- ❖ Installation and configuration of IIS, Apache and Tomcat. Administration of Mail and Web proxy servers.
- ❖ System Security administration.
- ❖ Maintenance of windows Active Directory, Microsoft Exchange 2010 and DNS.
- ❖ Writing shell scripts to automate system administration processes.

### **Software Developer**

SEP 2013-JUN 2016

*Operating System Laboratories (Oslabs)*

- ❖ Part of the team that is developing the Software Technologies ERP (Human Resource Management System). My duties involve programming and database development using Oracle.
- ❖ Web Administration, database administration and providing technical support for usability issues and critical site problems, as needed for the Oslabs client's websites.
- ❖ Monitoring, communicating and troubleshooting issues with data integrity during importation into the data warehouse.
- ❖ Database Support to First Assurance Company on their Core Banking System
- ❖ Installation, configuration and deployment of distributed memory object caching control system (Memcached). This project involved Installation and configuration of Memcached and API clients on Linux machines. In this project, I extensively used SSH, Linux and virtual machines.
- ❖ Documenting the installation and configuration processes.
- ❖ Worked on the team that developed the Project Management System (Secretariat) for the Oslabs Campaign management system. This involved programming, database development using Oracle and documenting the user manual.
- ❖ Lead designer and developer Web apps, Website, Content Management System. The site development included use of CSS, Ajax, JavaScript and PHP.
- ❖ Database development.
- ❖ API integration by using Google maps and Google bookmarking.
- ❖ Lead designer and developer for the Software Technologies Limited (STL) website. This involved web designing, programming and database development. API integration by using Google Ajax search, Google maps and Snapshot API.
- ❖ Development of Machine Technologies Ltd (MTL) website. This involved web designing and programming using CSS, Ajax, JavaScript and PHP. Database development. API integration by using Google maps.

### **Part-time Web developer**

APR 2010- JAN 2012

*TRAVELON KENYA*

- ❖ As a web developer, I designed and developed the website and content management system for Travelon Kenya. This involved web designing and programming using CSS and PHP. Database development using MySQL.

## PROJECTS WORKED ON

Company	Relevant technical and management experience
Co-operative Bank of Kenya	<ul style="list-style-type: none"> <li>• Technical Support for Oracle Supercluster M7 engineered system</li> <li>• Database Troubleshooting</li> <li>• Configuration of Enterprise manager for monitoring hardware and Software.</li> <li>• Technical support for Oracle M8</li> <li>• Support for Oracle ZFS storage systems</li> <li>• Support of VNX</li> <li>• Support of Vxrail</li> <li>• Support intel based servers</li> <li>• Support Backup solution - Oracle Secure Backup for the engineered systems</li> <li>• Onsite and offsite support for all the engineered systems base install</li> </ul>
GT BANK	<ul style="list-style-type: none"> <li>• Installation of Red Hat operating system</li> <li>• Configuration of Application Clusters</li> <li>• Provision of Shared Storage for database and application server.</li> <li>• Configuration of OVS virtualization.</li> </ul>
SBM BANK	<ul style="list-style-type: none"> <li>• Oracle Audit Vault Installation and Configuration.</li> <li>• Implementation of Audit Vault security policies</li> <li>• Implementation of database firewall</li> </ul>
Kenya Airport Authority (KAA)	<ul style="list-style-type: none"> <li>• MySQL Server database support and maintenance.</li> <li>• Preventative maintenance and curative maintenance of the of the MySQL databases.</li> <li>• Onsite and remote site support.</li> </ul>
Kenya Trade Network (KenTrade)	<ul style="list-style-type: none"> <li>• RAC database administration.</li> <li>• Configuring of database replication</li> <li>• Managing ASM disk instances.</li> <li>• Managing Disks and upgrading database instances.</li> <li>• Application upgrade between different database versions.</li> <li>• Creation of pre-production instances and replicating them.</li> <li>• Patching of the Databases.</li> <li>• Upgrading the operating system.</li> <li>• Support Solaris Servers</li> </ul>
Kenya Port Authority (KPA)	<ul style="list-style-type: none"> <li>• RAC database administration.</li> <li>• Managing ASM Disks</li> <li>• Application migration</li> <li>• Application upgrade from database 11g to 12C.</li> <li>• Database high availability implementation and support.</li> <li>• Disaster recovery administering.</li> <li>• Patching of the Database</li> <li>• Application Server Administration on Jboss and Apache.</li> <li>• Creation of pre-production database.</li> </ul>
Kenya Power Limited (KPLC)	<ul style="list-style-type: none"> <li>• RAC database administration.</li> <li>• Application upgrade from database 10g to 12C RAC.</li> <li>• Database high availability implementation and support.</li> <li>• Enterprise manger implementation for monitoring database instances.</li> <li>• Disaster recovery administering.</li> <li>• Creation of pre-production database.</li> </ul>

	<ul style="list-style-type: none"> <li>• Upgrade of the databases</li> <li>• Regular patching and bug correction.</li> <li>• Support the Linux Servers.</li> <li>• Support in Solaris System Administration.</li> </ul>
<b>Unaitas Sacco</b>	<ul style="list-style-type: none"> <li>• Data Center Support</li> <li>• Unix systems consultancy Support</li> <li>• Oracle OVM support</li> <li>• Zfs Storage administration support.</li> <li>• Database Support</li> <li>• Patching of the Database and upgrading of grid and oracle homes.</li> </ul>
<b>Teachers Service Commission(TSC)</b>	<ul style="list-style-type: none"> <li>• Data Center Support</li> <li>• Configuration of Vxrail</li> <li>• Support of VMware virtualization.</li> <li>• Migration of servers from bare metal to virtualization.</li> <li>• Servers Upgrade.</li> <li>• Upgrade Storage to EMC Unity.</li> <li>• Configuration of Avamar backup solution</li> <li>• Configuration of Data domain</li> <li>• Provision of Storage to different server via NFS and CIFS.</li> <li>• Upgrade of the HCI datacenter.</li> </ul>
<b>Electricity company of Ethiopia(EEP)</b>	<ul style="list-style-type: none"> <li>• Tuning Collection, Billing and reporting batches.</li> <li>• Upgrading the application Server to Dell Servers.</li> <li>• Database Support</li> <li>• Data migration from CMS to SAP</li> </ul>
<b>Energy of Cameroon (ENEO)</b>	<ul style="list-style-type: none"> <li>• Troubleshooting the ODA database appliance.</li> <li>• Performance tuning of the 12c Billing and core database.</li> <li>• Optimization of the core billing and collection batches.</li> <li>• Migration of application server from Oracle Database to 12c</li> </ul>
<b>Electricity Company of Ghana (EGC)</b>	<ul style="list-style-type: none"> <li>• Creation of Disaster recovery.</li> <li>• Infrastructure support for entire Data Center</li> <li>• Restoration of production database after total disaster in both DR and PROD.</li> <li>• Configuring of HP storage for both primary site and disaster recovery site.</li> <li>• Migration Disaster recovery site from Accra to Legon region.</li> <li>• Performance tuning for the production database to correct batch errors and for query optimization.</li> </ul>
<b>Zimbabwe Electricity Company (ZETDC)</b>	<ul style="list-style-type: none"> <li>• Creation of Disaster recovery site.</li> <li>• Migration of billing application from oracle 10g to Oracle 11g.</li> <li>• Performance tuning of the Billing and collection Database.</li> <li>• Restoration of Production database.</li> <li>• Migration of application from apache tomcat to Jboss.</li> </ul>
<b>Nairobi Water and Sewage Company</b>	<ul style="list-style-type: none"> <li>• Database recovery for billing data.</li> <li>• Partition of table data.</li> <li>• Performance tuning of the database.</li> </ul>
<b>IBER Africa</b>	<ul style="list-style-type: none"> <li>• Configuration of Netapp Storage.</li> <li>• Database Support.</li> <li>• Configuration of Palo Alto Firewall.</li> <li>• Apps Db</li> </ul>

<b>Harambee Sacco</b>	<ul style="list-style-type: none"> <li>• Installation of Solaris server and oracle Database.</li> <li>• Upgrading Database from 10g to 11g.</li> <li>• Implementing Oracle Business intelligence.</li> <li>• Implementation of Tape backup.</li> <li>• Installation and configuring of Sparc T4 Server the core Banking System.</li> <li>• Offering the infrastructure support (OS and Storage) for their Solaris Sparc Servers.</li> </ul>
<b>Phoenix Insurance Tanzania</b>	<ul style="list-style-type: none"> <li>• Database support and Preventative maintenance.</li> <li>• Database Administration for the Insurance core application.</li> <li>• Disaster recovery implementation.</li> <li>• Database optimization and performance tuning.</li> </ul>
<b>Phoenix Insurance Uganda</b>	<ul style="list-style-type: none"> <li>• Database Administration for the Insurance core application.</li> <li>• Database support and Preventative maintenance.</li> <li>• Disaster recovery implementation.</li> <li>• Database optimization and performance tuning.</li> </ul>
<b>Phoenix Insurance Kenya</b>	<ul style="list-style-type: none"> <li>• Database support and Preventative maintenance.</li> <li>• Database Administration for the Insurance core application.</li> <li>• Disaster recovery implementation.</li> <li>• Database optimization and performance tuning.</li> </ul>
<b>Sameer Agriculture</b>	<ul style="list-style-type: none"> <li>• Database support and maintenance</li> <li>• Preventative Maintenance.</li> <li>• Implementation of disaster recovery Site.</li> <li>• Maintaining daily replication between the main site and Disaster recovery site.</li> <li>• Database Performance Tuning for their core billing system.</li> </ul>
<b>First Assurance</b>	<ul style="list-style-type: none"> <li>• Performance tuning.</li> <li>• Upgrade of database from 10g to 11g.</li> <li>• Implementation of standby database.</li> <li>• Implementation of tape backup.</li> <li>• Disaster recovery and High Availability implementation.</li> <li>• Infrastructure support for Unix Servers (operating system and storage support)</li> </ul>
<b>Sameer Africa</b>	<ul style="list-style-type: none"> <li>• Database support and maintenance</li> <li>• Preventative Maintenance.</li> <li>• Implementation of disaster recovery Site.</li> <li>• Maintaining daily replication between the main site and Disaster recovery site.</li> <li>• Database Performance Tuning for their core billing system.</li> </ul>
<b>Nagasaki University in Kenya</b>	<ul style="list-style-type: none"> <li>• Designed and developed a Software Called Verbal Autopsy.</li> <li>• Translating the Smart Software into HDSS Software using Java and Ms Access database.</li> </ul>

## COMPUTER SKILLS

### Databases

- ❖ Hands on experience in administration of Oracle, Postgre Sybase, MSSQL and MySQL databases.
- ❖ Experience in using oracle Enterprise manager, SQLPlus, Toad, SQL server management studio, Sybase interactive SQL, PHPmyadmin, MySQL console.
- ❖ Experience in Oracle RAC (Real Application Cluster), Exadata, & Dataguard Administration.
- ❖ Experience in using RMAN
- ❖ ASM Administration.
- ❖ Experience in using Casandra and Hadoop.

## **System Administration**

- ❖ Conversant with Linux, HP-UX, Solaris and Windows operating systems.
- ❖ Good understanding of HTTP, HTTPS, FTP, LDAP and WAP protocols.
- ❖ Conversant in Microsoft IIS, Tomcat and Apache Web Servers, Jboss, WebLogic.
- ❖ Good understanding of Security Enhanced Linux.
- ❖ Hands on experience in configuring Samba, NFS, LDAP, HTTPS, FTP servers.
- ❖ Familiar with hardware virtualization in using Hyper-V, VMware and Virtual Box, Xen, OVS.
- ❖ Storage Administration (SUN, HP, Netapp, Hitachi, Unity, ZFS, DelleMC).

## **Software Development and Integration**

- ❖ Microsoft SSIS and SAP Data services for integration.
- ❖ SQL server reporting services, SAP Crystal reports and SAP Business intelligence tools  
Conversant in programming in Java, PHP, PL/SQL, SQL, JavaScript, AJAX and Shell Scripting, C++, C#, Python, HTML, DHTML, CSS and XML.
- ❖ Android development and programming
- ❖ Hands on experience with frameworks such as spring, Hibernate, Vaadin, ZEND, and JQuery.
- ❖ Conversant in relational database design and development Oracle, MYSQL and MS SQL.
- ❖ Familiar with Eclipse IDE, Visual Studio, Spring STS and Maven build tools.

## **Professional qualifications and Certificates:**

- ❖ Solaris 11 Advanced System Administration
- ❖ Oracle Linux Certified Administration
- ❖ Oracle Database 11g Administrator Certified Professional
- ❖ Oracle Supercluster Administration and Maintenance
- ❖ Servers and Oracle Hardware Support Principles
- ❖ Huawei HCS presales specialist.
- ❖ Huawei Datacenter Implementation Associate.
- ❖ Veritas Sales Expert Awards
- ❖ Veritas Backup Exec 16
- ❖ Veritas NetBackup 8.0 and 360 Data Management
- ❖ Veritas NetBackup Appliance 3.1 Universal Share (03-2018)
- ❖ Veritas NetBackup 5340 Appliance (03-2018)
- ❖ Veritas NetBackup 8.1 (03-2018)
- ❖ Veritas Information Map (03-2018)
- ❖ Veritas Sales Expert Plus Awards
- ❖ Veritas Access 7.3
- ❖ Veritas Backup Exec 16
- ❖ Veritas Enterprise Vault 12
- ❖ Veritas Information Map (January 2018)
- ❖ Veritas NetBackup 7.7
- ❖ Veritas NetBackup Appliances 3.1
- ❖ M-Series Support Readiness
- ❖ Sun Storage Support Readiness
- ❖ Converged Systems Administration
- ❖ Help Desk Support
- ❖ C document support Specialist
- ❖ Enterprise Communications Support Specialist
- ❖ Enterprise Taxation Management Support Specialist
- ❖ General Support Oracle Specialist
- ❖ Instantis Enterprise Track 8 Support Specialist
- ❖ iStore Support Specialist
- ❖ Network Session Delivery and Control Infrastructure Support Specialist
- ❖ Oracle Argus Safety 7 Enterprise Edition Support Specialist
- ❖ Oracle Database OCA
- ❖ Oracle EBS Support version 3

- ❖ Oracle EBS support specialist
- ❖ Oracle Exadata Database Machine 2014 Support Specialist
- ❖ Oracle Exalogic Elastic Cloud 2014 Support Specialist
- ❖ Oracle FS1 Flash Storage System Help Desk Support Consultant
- ❖ Oracle General product support V.4 specialist
- ❖ oracle Linux 6 support Specialist
- ❖ Oracle Optimized Solution for Enterprise Cloud Infrastructure Support Specialist
- ❖ Oracle Policy Automation Support Specialist.pdf
- ❖ Oracle Solaris 10 Support Specialist.pdf
- ❖ Oracle Taleo Enterprise Cloud Service 2013 Support Specialist
- ❖ Oracle Virtual Networking Support Specialist
- ❖ Oracle X4 Series Server Differences
- ❖ Oracle ZFS Storage Appliance ZS3 and OS8 Differences
- ❖ Primavera P6 Enterprise Project Portfolio Management Support Specialist
- ❖ Solaris 10 Support Specialist
- ❖ Solaris 11 implementation specialist
- ❖ Solaris 11 presales
- ❖ Solaris 11 sales Specialist
- ❖ SPARC T5 Installation and Maintenance
- ❖ SPARC T7 Servers Installation and Maintenance Consultant
- ❖ SPARC T8 Assessment Specialist
- ❖ Sun Systems Fault Analysis Workshop
- ❖ Sun ZFS Storage Appliance Support Specialist

#### REFFEREES

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