**Innocent Okezie Anigbo M.Sc**

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| **Who Am I:** |

*I am an enthusiastic, diligent, confident, self-motivated and highly skilled Senior DevOps engineer and System administrator. I have Strong knowledge and experience in deployment automation, continuous integration, Continuous deployment (CI/CD) and delivering of Software as a service (SaaS). I’m highly proficient in automating infrastructure setup through code (IaC). I have excellent track record of transforming hosted infrastructure from manual setup processes to an automated setup process that is reusable and repeatable whilst also ensuring that the automated infrastructure is resilient, redundant, self-scaling and self-healing. I have strong track record of migrating hosted application from traditional DC to a more robust state of the art cloud platform through automation. I have strong track record of application containerization which led to the elimination of the disparity between hosting application environments. I am seeking a challenging position as a DevOps/System Engineer so I can utilize my skills alongside other team members to achieve advancement and growth for the company.*

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| **Summary of Skills and Experience:** |

**Strong leadership skill**: Using AGILE/SCRUM methodology from software development to delivery

**Exceedingly Competent with Configuration Management Tools:** Puppet, Chef, Perforce

**Strong expertise with Infrastructure as code (IaC) Tool:** Terraform, AWS Cloudformation, Chef, Puppet

**Very confident with APP and Web Servers:** Tomcat, nGinx, Play Framework, Jboss, Apache, Java, Apache solr

**Deep Understanding of Platform as a Service Cloud Service:** Amazon Web services (AWS), Google cloud

**Excellent knowledge of Linux OS and Kernel**: RedHat, Centos, Ubuntu, Debian, Fedora

**Profound knowledge of CI/CD Tools:** Jenkins (Pipeline jobs)

**Strong knowledge of Version Control System:** Git, Github, GitLab, Perforce

**Strong Knowledge of Virtualization:** VMWare, VM VirtualBox, Docker, Vagrant, Packer, Xen,

**In-depth Knowledge of Container Service and Container Clustering:** Docker, ECS, ECR, Kubernetes

**Solid understanding of Scripting language and programs:** Bash, Python, Ruby on Rail

**Proficient in utilizing Monitoring tools:** Prometheus and Grafana, Zabix, LogicMonitor, Sitescope, Cloud watch

**In-depth Knowledge of Central logging**: Kibanna, Elastic search, Logstash (ELK)

**Expert in Networking:** TCP/IP, LAN/WAN, OS Model, IPV4, IPV6, DHCP, HTTP Analysis, VLAN, NAT, Subnetting

**Thorough knowledge of Databases administration**: Mysql, Mongo, Redis, Cassandra, Stardog, PostgreSQL

**Strong Knowledge of building and management of HA DB Clusters**: DRBD, HA Proxy, Sharding, Replication, Corosync, Peacemaker, Quorum

**Deep Understanding and administration of Load Balancing Node Clusters:** F5 BIG-IP, ELB, ALB, Zeus, HA Proxy

**Intense Experience with Firewalls and Network Security:** Checkpoint, Cisco VPN, Security group, IPtables

**Experienced with remote Device Management tools:** MDM, OTA, Push Notification, EMG, Binary SMS, ADD

**Outstanding Capabilities to:** Automate Application and programs, Debug Complicated System Errors, Automate Cloud Platform Deployment and deliver Software as a Services (SaaS)

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| **Education:** |

University of Sunderland, United Kingdom Oct, 2010 – Jan, 2012 M.Sc Telecommunications Engineering (with Distinction)

Enugu State University of Science and Technology Oct, 2002 – Oct, 2007

B.Eng Electrical Electronic Engineering

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| **Career History:** |

AWS Platform Engineer, Department of Work and Pension (DWP) Jan, 2019 – Date

* Introduced, designed and implemented automatic legacy MF Cobol code build, precompile and compile using Jenkins CI/DC Pipeline
* Design puppet architecture for configuration management. Developed new puppet code/manifest to meet business need
* Automate aws environment and services (Ec2, VPC, Auto scaling, ECS, RDS etc) provisioning using Terraform code. State file stored in s3 with locking enabled using Dynamo DB
* Migrated source code from On-Prem Hosting to AWS cloud. Trained MF cobol developers on Agile methodology. Reduced code build/release time from 48hrs to 20mins
* Migrated complex Cobol code from SVN to Gitlab
* Writing Bash, Python and Ruby scripts to meet business need
* Designed and implemented automatic build of Prometheus Monitoring tool using Terraform. Created Prometheus Alerts and metric scraping for ec2 monitoring
* Investigating complex environment issue
* Designed and Implemented OPH VMs and EC2 nodes bootstrapping using puppet. Nodes/VMs bootstrapped with base software requirement and ready for code deployment
* Creating and maintaining documentations of setup on confluence

MWP Barclays Technology Centre Knutsford (DevOps Eng) Feb, 2018 – Dec, 2018

* Designed and AWS VPC Network and enabled Chef Server Bootstrapping of EC2
* Design and setup Automated EC2 shutdown using Openshift container platform with shutdown triggered via AWS API
* Support internal customers to investigate Chef, AWS, Application and complex environment issues
* Support internal customers using chef to host web servers on AWS public cloud,
* Support internal customers on tomcat, Jboss, Apache HTTPD and WAS8 related issue
* Creating and maintaining documentations of setup on confluence

Web Services Consultant (Senior DevOps Engineer), WDS, A Xerox Company July, 2012 – Dec, 2017

* Providing technical leadership to DevOps Team, by harnessing AGILE/SCRUM methodology from software build to delivering through distributed and collocated agile team
* Design and implementation of Application architecture in AWS VPC with components including – subnets, internet gateway, Nat gateways, Route tables, VPN Connection, EC2 etc.
* Design and setup of Application architecture in internal DC using VM Ware, Checkpoint Firewall, F5 BIG-IP Load balancer, DNS services, DB Clustering
* Automating Cloud Infrastructure setup and converting entire infrastructure into code using Terraform and Cloud Formation with Infrastructure Code checked in and managed in Git version control
* Migrating software from traditional DC to Amazon Web services Cloud platform
* Automating the provisioning of Web based applications (like Tomcat, Jboss, Apache, Solr, nGinx, Java and Play Framework etc) using Chef, puppet and Docker container service
* Ensuring a self-scaling and self-healing architecture through AWS auto scaling technology and for Docker container cluster through Kubernetes pods controller
* Automating Cloud ec2 node Bootstrapping using AWS CF, Cloud-init and Terraform Provisional
* Automating End to End Code deployment via CI/CD Jenkins pipeline, bash, python and ruby scripts
* Automate configuration management using chef cookbooks, puppet module and manifests
* Automating a virtualized environment using VMWare, VirtuallBox, Docker, Packer, Vagrant
* Implementing application containerization using Docker, ECR, ECS
* Implementing container clustering using Kubernetes Pods
* Migrating legacy application to Docker container service and automating the setup and deployment
* Automating Continuous integration and deployment of code artefacts to over 600 applications
* Creating/Updating Firewall rules in Checkpoint, IPtables, Security Group and Network Acl
* SSL Certificate Management and ensuring security of data via encryption
* Setup of end to end IPSec VPN Tunnel for data and binary SMS encryption.
* Collaborate with other telecoms companies engineers on any network setup and high level issues
* Remote Mobile Device Management, using PUSH, ADD/DCE, MDM, OTA, SSL Certificate Signing
* Ensuring HA of all applications by a distributed cloud Ec2 Nodes in difference Availability zones
* Setting up and administering Database cluster e.g MYSQL, Mongo DB, Cassandra, and Stardog cluster.
* 247 support and monitory of apps and nodes using Sitescope , Logic Monitor, Zabix , Cloudwatch
* Identifies, diagnose, and resolve complicated system errors and hosted application’s issues
* Create and maintain comprehensive documentation for all hosted applications in Jira Confluence
* Maintained a high degree of customer service by strictly adhering to all Service Level Agreements

IT Support Engineer (Volunteer), Acorn Computers Recycling, Newcastle. March, 2012 – July, 2012

* Desktop/laptop formatting, troubleshooting and repairs
* Assembling, Setting up and configuring parts from used computer systems into a single clone
* Installing authorized software/applications and antivirus to laptops/desktop
* Ensuring computer patches and security upgrades are applied to computer systems
* Installation of LAN cables and basic network troubleshooting
* Ensuring all repaired/refurbished IT equipment meets industrial standard before dispatched for sales.

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| **Professional Certification:** |

AWS Certified Solution Architect – Professional Aug, 2018

AWS Certified Solution Architect – Associate June, 2018

Cisco Certified Network Associate CCNA (R & S) 640-802 June, 2009

Cisco Certified Network Associate Voice 640-461 Feb, 2012

Red Hat Certified system Administrator RHCSA EX200 June, 2012

Information Technology Infrastructure Library (ITIL) V.3 EXO 101 Feb, 2012

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| **Scientific Researches:** |

* Scientific research into IPTV Technology, QoS Policy and Video Compression Technics suitable for an IP network. This is a scientific research and comparison of different technics to deliver Video over the internet that ensures quality of the video delivered and convergence of the network. The lab experiment I completed for this research gave detailed comparison of other numerous methods tried by plethora of authors and its short coming. I then took it a step further to experiment and demonstrate how video content could be delivered hitch free using Multicasting technology, using a combination of compression and QoS policy that ensure quality of the video content, in the midst of other bandwidth hungry internet traffic. The aim to ensure network convergence that is very transparent to other end users. This is an area with less studies and experiment. The success of the experiment and the solution it proffers led to an awarded of a Distinction in my master degree – Thesis submitted to University of Sunderland UK 2012
* Scientific research into Microprocessor based Office Receptionist. This is a scientific research and implementation to replace office receptionists with microprocessor based computer/software using artificial intelligence. The AI computer/software was trained on the basic task of an office receptionist and offers a bidirectional conversation with human. However, in cases where it doesn’t understand any further and can no longer help, it offers to transfer request to human – Thesis submitted to Enugu State University of Science and Technology (ESUT) Nigeria 2007

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| **Achievements:** |

* Developed and hosted Okezie voice, a Voice-to-speech service built on AWS cloud and for personal use. Okezie Voice is hosted using AWS service as follow: Lampda, DynamoDB, Polly, SNS, API Gateway, API Gateway, S3 Bucket and coded in Python. url: <http://okezie-mp3s.mykezy.com/>
* Endorsed by Tech City UK for Exceptional Skills in Digital Technology

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| **Professional Engagements and Contributions:** |

* Regular Speaker at Voisip Telecomms Ltd where I help start-ups to harness Cloud technology and open source tool to boost their businesses and help IT/software engineer to improve their digital skills - <http://voisiptelecomms.com/>
* Active Member of Stackoverflow where I help other DevOps Engineer on wide range of issues including infrastructure code <https://stackoverflow.com/users/7975584/innocent-anigbo>
* Training work Colleagues on new technologies to improve their technical skills