**NAME: ACHU TAYONG**

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**Senior AWS Cloud /DevOps Engineer**

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| Carrier Summary |

* Having 7+ years of competitive experience in IT industry in as AWS Cloud Engineer, DevOps Engineer, Solution Architect and Microsoft Azure Cloud Architect and Linux System Administration. I have an in-depth knowledge on various AWS Services including EC2, VPC, (NAT, Peering, VPN), IAM, EC2 Container SERVICE, Elastic Beanstalk, Lambda, S3, Cloud Front , Glacier, RDS, Dynamo, ElastiCache, Redshift, Direct Connect, Route 53, Cloud Watch, Cloud Formation, Cloud Trial, ) SNS, SQS, API Gateway and Microsoft Azure Services such as vnet , Azure Bastion, Synapse, Virtual Machines, Azure Functions.. Methodology, Container-Orchestration (Kubernetes), Containerization, Virtualization, Build Engineering, Configuration Management, IAAS, PAAS, Cloud Native & Micro services, Cloud Computing Technologies, Production Delivery, Automation and Cloud Administration (AWS & Azure).
* Having good hands-on experience with Kubernetes (On AWS EKS, Azure AKS & On-Premise), OWASP, Docker, Openstack, Jenkins, AWS (EC2, VPC, S3, Glacier, Cloud Watch, Cloud Trail, Cloud Front, IAM, Lambda, ElasticSearch, ElastiCache, RDS, ELB, Elastic Beanstalk etc), AWS Account Migration, Istio (Service-Mesh, Network routing), EnvoyFilter, SaltStack, Terraform, Prometheus, Grafana, InfluxDB, Telegraf, Graylog, Kiali, Jeager, SpotInst, Dynatrace, Rsyslog, Logstash, Superset cluster, PM2, NodeJs, Redis, Keepalive, PostgreSQL On-Premise Cluster, MySQL, Shell Scripting, Pascal Scripting, Perl Scripting, Python Scripting, Test Link, Pingdom, Uptime Robot, Mantis, GIT, Bitbucket, VMWare and Hypervisor, Super micro servers, FortiGate firewall etc.
* Well experience of working in both software as platform and software as service under complete SDLC and STLC which involves infrastructure & security design, end to end platform setup, cost optimization, benchmarking, SOC Audits, AWS Partner Network, complete monitoring and alerting setup (Voice Call, SMS & Mail), POC Setups, technical aspects in RFP, client meetings for understanding infra requirements, creating application architecture, cloud & on-premise setups, collaboratively working with development & testing teams, SLA & Infra documents preparation, presentations, downtime less production releases, production issue analysis, reporting, production servers maintenance, deployments, monitoring and production failure alerting.
* Good experience in creating robust end to end infra setup for launching applications with high availability, scalability, reliability, and DR enabled using Kubernetes, Cloud Platform and On-Premises.
* Good work ethics with excellent communication and interpersonal skills.
* Ability to work in both team environment and individual environment to complete organization driven goals.
* Committed, result oriented, innovative, and hardworking with a goal to learn new technologies.
* Deploy the services by VSTS (Azure DevOps) pipeline.
* Implement Azure security and networking best practices.
* Azure scalability, availability & resiliency experience in architecture and management.
* Experience upgrading and installing Azure laaS, PaaS, Serverless and Native tools.
* Experience with monitoring tools such as Azure Log Analytics, Trusted Advisor, Azure Monitor, etc.
* DevOps experience for deployment and management automation.
* Experience with automation tools such as Azure Resource Manager, Terraform, and Ansible.
* Experience in Azure Backup, Azure Policies, Azure Key Vault, and Tagging.
* Experience in Azure Platform Development, Deployment Concepts, hosted Cloud Services, platform service and close interface with Windows Azure Multi-Factor Authentication.
* Configured diagnostics, monitoring and analytics on Azure using API Management, Logic Apps and set up documentation.
* Strong knowledge with SQL Server and using DACPAC for SQL Deployments from the Pipeline.
* Strong knowledge in front-end and back-end web development (.NET, C#, Angular, Node, React).

## Technical Competencies

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| * **Skill Classification** | **Description** | **Experience** |
| Methodology | AWS Cloud, DevOps Engineer, and Azure | 6.6 Years |
| Domain | AI, Digital Payments, Backup and Cloud Administration | 7 Plus Years |
| Operating System | Windows, Ubuntu, CentOS, RedHat, Alpine and MacOS | 3.3 Years |
| Automation Tools | Jenkins, VSTS, Jenkins/Hudson/Octopus and Test Link | 6.0 Years |
| Programming and Scripting Languages | Shell, Pascal, Perl, PowerShell, Bash, and Python Scripting | 4.3 Years |
| Version Control Systems | GIT, Bitbucket, SVN and TFS, GITHUB, | 4.2 Years |
| AWS Services | EC2, S3, Glacier, Cloud Watch, Cloud Front, IAM, RDS, ELB, ElastiCache, ElasticSearch, Lambda, Beanstalk | 6.0 Years |
| Server Monitoring & Alerting Tool | Uptime Robot, Pingdom, AlertMix, SquadCast | 5.0 Years |
| Databases | Postgresql, MySQL, Redis, ElasticSearch | 4.0 Years |
| Bug Management Tool | Mantis, Varys, Jira | 6.0 Years |
| Task Management Tool | Basecamp, Varys, Jira (SprintBoard) | 6.0 Years |
| Infra Security | Bastion Server, MFA, IP Blocking, Command Tracing | 3.3 Years |
| Containerization and virtualization Tool | Docker and Kubernetes, VM virtual Box and VMware | 4.0 Years |
| Container-Orchestration Tool | Kubernetes (AWS EKS, AWS AKS and On-Premises) | 4.0 Years |
| Monitoring Setup Tools | Grafana, InfluxDB, Prometheus, Telegraf, Kiali, Jeager, Nagios, Cloud watch and Jira | 3.3 Years |
| Web Server | Nginx (Proxy, Load Balancing, Health Check, Allow-Origin CORS, Domain Blocking, Rewriting/Routing),React | 3.3 Years |
| Network Management Tool | Istio (Network Routing, Service Mesh), Calico, AWS CNI | 3.4 Years |
| Full-text/log Search Engine | ElasticSearch, Graylog | 3.3 Years |
| Application Tracing Tool | Dynatrce, NewRelic | 3.2 Years |
| Virtualization Tool | Openstack, VMWare, Hypervisor | 3.0 Years |
| AWS Spot Instance Tool | SpotInst | 1.8 Years |
| Physical Servers | Supermicro Systems | 1.5 Years |
| Firewall | Fortigate 300D, Fortigate 80E | 1.5 Years |
| Logging Tool | Rsyslog Server/Client | 1.5 Years |
| Configuration Management and Build Tool | Saltstack, Terraform, Chef, Puppet, Ant, Maven, MS Build, Gradleand Ansible | 3.2 Years |
| Application Server | Oracle Web logic Server | 8 Months |

* **Project Management --** MS Project, Agile, Scrum, Kanban, Jira Rally.
* **Document Management --** SharePoint, Confluence.

**Professional Experience:**

***Career History***

* **EXCELACOM INC - Greenwood Village, CO October 2019 to Present**
* **Role: AWS Cloud Engineer**

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| **#1** | **Project** |  |

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| Technical Work |  | : Infrastructure & Security Design, End to End Infra Setup/Enhancements  on Kubernetes, DR, Deployments, Monitoring & Alerting, Benchmarking,  Maintenance, Production Issues, Load Balancing and High Availability. |  |  |
| Technology |  | : Kubernetes (AWS EKS, Azure AKS), Istio, Calico, AWS (EC2, VPC, S3,  CloudWatch, Trail, ElastiCache, ElasticSearch, Lambda, Route53,  RDS, ELB, CDN), Jenkins, ShellScript, Logstash, Prometheus, Superset,  UptimeRobot, Telegraf, Influx, Grafana, Kiali, Jeager, Bastion Server,  MFA (Google Authenticator), IP Blocking (Fail2Ban), Command Tracing. |  |  |
| Role |  | : Cloud Engineer |  |  |
| Team Size |  | : 1 |  |  |

***Responsibilities:***

* Guided development teams on design of web interfaces and infrastructure that efficiently power the cloud environment.
* Designing and configuring cloud formation templates to quickly deploy AWS resources.
* Used IAM for controlling the access to AWS resources for our users.
* Create develop and test environments of different applications by provisioning Kubernetes clusters on AWS using Docker, Ansible, and Terraform
* Setup Docker Swarm and Kubernetes cluster for Docker Container Management
* Designed and implemented fully automated server build, management, monitoring, and deployment solutions spanning multiple platforms, tools and technologies including Jenkins Nodes/Agent, Ansible, Kubernetes, Docker, Amazon EC2
* Created and managed a Docker deployment pipeline for custom application images in the AWS cloud using Jenkins
* Created EC2 instances for various app support and DB teams across the board.
* Created a Continuous Delivery process to include support building of Docker Images
* Automated ELK stack deployment with Ansible and Terraform to deploy to GCP, AWS and Open stack. Automated ELK ILM with Ansible. Experience with ELK Day to day operations and back up’s.
* Configured cross region replication, encryption, versioning, logging for Amazon S3 buckets.
* Managing existing infrastructure and created new infrastructure using Ansible as Configuration Management Tool.
* Migrated applications to the AWS cloud platform.
* Worked on creation of Ansible manifest files to install tomcat instances and to manage configuration files for multiple applications.
* Managed Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Access restriction on databases using access control lists and security groups.
* Created TOPICS for publishing and subscribing using SNS (Simple Notification Service), SES (Simple Email Service), SQS (Simple Queue Service).
* Deployed and configured Chef Server that includes bootstrapping of chef nodes for provisioning using AWS OPS work.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Python, Ruby, and Docker.
* Scripted ansible playbooks for automating the infrastructure using AWS resources.
* Coordinated with geographically distributed teams and provided support during build/merge issues.
* Advocated design of release environments for new projects.
* Responsible for automated identification of application server and database server using Ansible Scripts.
* Extensively used S3, Glacier for storage purpose [for storing archives and production related dumps] and RDS for launching an Oracle Database 12c
* Standardized change management process with adoption of Rancher (for Kubernetes) with AWS EKS
* Installing Chef Server, Workstation & Node - Creating & Uploading Chef Cookbooks.
* Experienced with SCT (Schema Conversion Tool) for cross database migrations.
* Installed and configured Docker. Created Docker Image and Push/Pull to/from Docker hub.
* Deployed builds to production and worked with the teams to identify and troubleshoot any issues.
* Configured Linux environments in public and private domains.
* Ran Ansible playbooks and created various roles for applications, then deployed the Applications/Services on hosts.
* Installed and configured Nagios monitoring tool for disk usage, CPU utilization.
* Documented daily work, important activities & issues during build/deployment for future references.
* Trouble shooting any performance and network/access related EC2 Instance issues.
* Experience in assisting clients with setting up of AWS user accounts and consolidated billing.
* Experienced in setting up AWS Directory Service for Microsoft AD Integration.
* Administer OpenShift Enterprise v2 and v3 for cloud operational services.
* Worked on All Jenkins deployments with OpenShift and testing the Builds after implementation using Postman test scripts.
* Hands on experience with Amazon Kinesis (KDS) AWS infrastructure modeling tools, including CDK, CloudFormation or Terraform
* Hands on experience working with infrastructure as code (CFT, Arm, Terraform, CDK etc).
* I have Working knowledge with Azure Microsoft 365.
* Experience with endpoint device
* Experience with Azure Windows 365/Cloud PC.
* management in Azure
* Experience with Directory and Azure Active Directory administration.
* I Deployed Java/J2EE applications on to Apache Tomcat application servers and configured it to host the wiki website. Combat knowledge of DNS, DHCP and IP Addressing.
* A strong background in scripting and/or programming languages (BASH, Perl, Ruby,
* Python, YAML, Java, etc.)
* **Environment:** AWS EC2, S3, RDS, IAM, ELB, EBS, VPC, Cloud Watch, Cloud Front, Docker, ANT, Maven, Chef, Shell, Ansible, Chef, Apache, Oracle 12c, GIT, Jenkins.
* COGNIZANT, DALLAS, TX March 2017 to September 2019
* Role: AWS DevOps Engineer

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| **#2** | **Project** |  |

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| Technical Work |  | : Infrastructure & Security Design, End to End Infra Setup/Enhancements  on On-Premise, DR, Deployments, Monitoring & Alerting, Benchmarking,  Maintenance, Production Issues, Load Balancing and High Availability. |  |  |
| Technology |  | : Physical Servers (Vmware & Openstack), Jenkins, Shell Scripting,  InfluxDB, Terraform, UptimeRobot, Rsyslog, Telegraf, Bastion, Grafana,  MFA (Google Authenticator), IP Blocking (Fail2Ban), Command Tracing,  MongoDB, ElastciSearch, PostgreSQL, Redis and pgpool-II |  |  |
| Role |  | : Senior DevOps Engineer |  |  |
| Team Size |  | : 1 |  |  |

***Responsibilities:***

* Responsible for defining, branching, and merging strategy, check-in policies, improving code quality, automated gated check-ins, defining backup and archival plans.
* Experience in designing and deploying AWS Solutions using EC2, S3, EBS, ELB, Auto Scaling groups. Developing Cloud formation templates to launch VPC's and instances in the AWS.
* Responsible for large-scale Puppet implementation and maintenance.
* Managed Puppet for configuration management and automation using AWS infrastructure. Installed, Configured, Managed Puppet Master/Agent automated on AWS.
* Created Puppet manifests and modules to automate system operations. Created monitors, alarms, and notifications for EC2 hosts using Cloud Watch.
* Deployed and monitored scalable infrastructure on AWS and managing the infrastructure environment with Puppet.
* Developed automation scripting in Python using Puppet to deploy and manage Java applications across Unix/Linux Servers.
* Implementing a Continuous Delivery framework using Jenkins, Ant and Maven using AWS Cloud. Build Automation and Pipeline development using Jenkins and Maven.
* Designed Terraform template for Launch the EC2 instance with IAM, VPC, Subnet, Security Groups, Route Table and Internet Gateway.
* Design and developed high availability cluster using AWS, ELB / Haproxy, auto scaling, apache, tomcat, MySQL.
* Contributed to changing the architecture of monolithic applications so as to make them highly available using HaProxy/Nginx and easily convertible to micro- services.
* Managing Amazon Web Services (AWS) infrastructure with automation Using Terraform.
* Installed Jenkins for continuous integration and written Shell script for end-to-end build and deployment automation. Used Jenkins to automate most of the build related tasks.
* Experience in CI tools like Jenkins, Teamcity, bamboo using build tools like Ant, Maven.
* Implementing to build new project framework using Jenkins & Maven as build framework tools. Performing regular Cron job updates and Quartz scheduler jobs in servers.
* Created post commit and pre-push hooks using Python in SVN and GIT repositories.
* Deployment and maintenance using Micro services using Docker.
* Used Docker containers for eliminating a source of friction between development and operations.
* Automated application deployment in the cloud using Docker technology using Elastic Container Service scheduler.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer
* Managing the database DDL, DML scripts in SVN and GIT.
* Deployed, configured GIT repositories with branching, forks, tagging and merge requests.
* Used UDeploy as Continuous Deployment tool and to setup automated and scheduled deployments. Maintained build related scripts developed in ANT and Shell.
* Created and maintained the Python deployment scripts for WebSphere web applications.
* Deployed Java/J2EE applications on to Apache Tomcat application servers and configured it to host the wiki website. Combat knowledge of DNS, DHCP and IP Addressing.
* Troubleshooting and maintaining Splunk Infrastructure in the organization.
* **Environment:** Solaris, Linux, Eclipse, Java, SQL, AWS EC2, Python, Subversion, Bash, Hudson, NT Com-mand Shell, Java/J2EE, Maven, Gradle, Chef, AWS, JIRA, XML, Vagrant LINUX (RHEL, CentOS), Docker, Jenkins
  + - **Horizon Corps – Chicago, IL June 2016 to February 2017**

* + - **Role: Cloud Architect**

***Responsibilities***

* Work directly with stakeholders to comprehend solution problems and identify opportunities.
* Work together with a team of application developers, engineers, and designers to deliver innovative technology solutions using AWS public cloud services.
* Responsible for collecting and defining technical requirements to enable business process and integrations.
* Establish an approximate level-of-effort and staffing requirements for complex development projects.
* Lead the team of engineers and IT specialists to design effective, efficient, scalable, and secure applications within the organization’s Cloud software platform.
* Ensure that solutions created by the development team stick to technical architecture standards.
* Responsible for writing and reviewing codes and contributing to all technical discussions and architecture planning.
* Note down and maintain clear documentation and standards for cloud operations in the organization.
* Stay up to date on emerging technology trends and promote an environment of learning.
* Responsible for monitoring the production environment and advance the obtainable monitoring setup as needed.
* Sustain performance and availability of production systems in the AWS public cloud infrastructure to achieve optimal uptime.
* Develops and implements detection and disaster recovery activities to test cloud services; participates in detecting, investigating, documenting, and reporting actual or potential cloud environment security violations, intrusions, failures, performance, or other issues.
* Designs cloud backbone infrastructure, to provide reliable, optimized, high performance cloud services.
* Evaluates security products and tests security systems performance; assists in planning, implementing, and testing disaster recovery procedures; participates in making formal risk assessments related to the cloud environment.
* Participate in planning of architecture, tooling, and processes during the project design and implementation phases.
* Maintain Azure CI/CD pipelines, servers, scripts, and practices/strategies.
* Create, implement, and document infrastructure patterns within Azure.
* Teach development, operations, and other internal teams about various Azure resource scaling and improved utilization.
* Keep on top of new technologies and trends, especially those related to Microsoft Azure.
* Highly motivated and able to excel in both team and individual environments.
* Enjoy problem solving and learning new technologies and concepts.
* Quickly able to adapt to new environments through research and discipline.

**Other Technologies, Concepts and Frameworks:** Azure Cloud, Azure DevOps, Git, Kubernetes, Docker, OpenStack, Angular, Scrum, Kanban, Microservices, RESTful API, Functions as a Service, Event Driven Architecture, Service Oriented Architecture, jQuery, WebLogic, IIS, Redis, Service Bus

**Humana, Charlotte, NC July 2015 to May 2016**

**Role: Linux System Administrator**

***Responsibilities***

* Introduces new servers to the network, maintaining and troubleshooting network connectivity, firewalls, and DNS hostnames resolution.
* Package management through RPM, YUM configuration.
* Scheduling jobs for user. RAID installation and configuration of RAID.
* FTP installation and configuration of VSFTPD 2.6 to download and upload the files for client.
* LVM installation and configuration of LVM. Extending and partition with LVM depending upon the memory need. Configuration of HTTPS, NTP.
* Performs routine audits on systems performance, logs, and capacity planning and system resource management.
* Perform system monitoring: CPU, memory, I/O, hardware, jobs scheduling and process management.
* Create and extend physical volumes, volume groups. Resize existing logical volumes for additional space requirements.
* Strong in building Object Oriented applications using Java, writing Shell Scripts on UNIX.
* Installed and deployed Red hat enterprise Linux. CentOS and installation of packages and patches for Red hat Linux servers.
* Responsible for installation, configuration of Solaris and Linux servers using jumpstart and interactive methods.
* Maintain Solaris and Linux servers, evaluating needs and installs appropriate recommended patches and create, configure Solaris zones.
* Monitors client disk quotas and general disk space usage conducts systems performance monitoring and tuning using different monitoring tools such as Nagios and Syslog.
* Utilizes Nagios software for server monitoring and systems health with native Solaris tools and top.
* Implementing, deploying, and maintaining Linux (Ubuntu) and Windows operating systems across a variety of platforms
* Configure and maintain NAS Storage, Networking, Firewall, and Directory Services such as MS Active Directory management and Group Policy administration.
* Maintain Microsoft Azure as Novateur’s primary administrator.
* Regularly monitor and review security logs and reports on our servers, workstations, laptops, networking equipment, and cyber security applications.
* Create and maintain installation and configuration Standard Operating Procedures (SOPs) to meet CIS benchmarks on Windows and Linux operating systems.
* Maintain current knowledge of DoD security and technical guidelines and the organization's policies.
* Resolve all issues coworkers have with their IT systems and software (password reset, backup, system restoration)
* Regularly meet with the executive team to review IT infrastructure status; develop and execute plans for future proofing Novateur’s IT system.
* **Environment**: Apache, Nagios 4.0, Tomcat, SSH, RAID, Samba, Veritas, HTTPS, LVM, DHCP, Web Server NTP, Java/J2EE, PHP, LDAP, CentOS 5.x/6.x/7, Red Hat Linux 8/9, RHEL 5.x/6.x/7, Red Hat Satellite 6, Windows Server, and SUSE Linux

## Summary of Additional Experience

* **Microsoft Azure Governance / Problem solving, Agile Scrum Master**

***Education & Professional Development***

* **Bachelor in Computer Science/** *University of Buea- Class of 2013*

# Certifications --– AWS Solution Architect Associate,

# AWS SysOPS Administrator Associate.

# Security+

# Certify Scrum Master, SAFe.

# AWS Certified SysOps Administrator – Associate | Gunner TechnologyAWS Certified Solutions Architect – Associate - Credly