**Profile**:

AWS/DevOps Engineer having around 14+ yrs relevant years of professional Experience dedicated to automation and optimization. Understands and manages the space between operations and development to quickly deliver code to customers. Has experience with the Cloud, as well as DevOps automation development for Linux Systems. Seeking a position in AWS/ DevOps to contribute my technical knowledge.

**Professional Summary**

* With around 14+Yrs relevant years as DevOps Engineer/Linux Admin in the areas of Configuration Management, Build, Deploy, Release Management and DevOps Methodologies.
* Strong use of Shell scripting languages including BASH for Linux and Mac platforms and PowerShell for Windows systems.
* Strong Experience in implementing Data warehouse solutions in AWS Redshift; Worked on various projects to migrate data from on premise databases to AWS Redshift, RDS and S3
* Hands on experience in data processing automation using python.
* Developed a Python script to automate the input value file build and a Terraform module and workspace initialization.
* Automate provisioning and repetitive tasks using Terraform and python, Docker container, service Orchestration.
* Experienced in AWS Security tools such as CloudTrail, AWS Inspector, Kibana, Grafana, AWS Guard Duty
* Monitored Network, File systems and process activity by installing AWS Inspector Software Agents on EC2 instances that are included in Assessments.
* Automated AWS S3 data upload / download using python scripts.
* Experience in design micro services deployment using Docker and Kubernetes.
* Worked with DevOps practices using, AWS, Google Cloud, Elastic Search, Beanstalk and Docker with Kubernetes
* Implemented Continuous Integration (CI) using Jenkins and continuous deployment.
* Installation and setting up of chef server and node. And create recipes to set up environment.
* Wrote Ansible: playbooks, tasks, roles, templates.
* Installed Chef Server Enterprise on premise/workstation/bootstrapped the nodes using knife and automated by testing Chef recipes/cookbooks with test-kitchen/chef spec.
* Deploy Ansible and Jenkins to completely provision and manage AWS EC2 instances, volumes, DNS, and S3.
* Development of infrastructure automation in AWS (EC2, Dynamo DB, Lambda, EBS, RDS, Dynamo, ELB, EIP etc.) with AWS Cloud Formation
* Used Low-level APIs such as the Amazon Web Services API and higher-level abstractions such asBoto, AWS SDK.
* Automated the cloud deployments using chef, python (boto & fabric) and AWS Cloud Formation Templates.
* Installed and configured Infrastructure monitoring- Nagios monitoring tool, while using it for monitoring network services and host resources.
* Skilled in monitoring servers using Nagios, Datadog, Cloud watch and using ELK Stack Elastic Search Log stash.
* Experience as communication Lead for P1 and P2 critical issues, also participated in SRE duties like automation of alerts like creating group policies for critical alerts and recurring issues, Monitoring the SLO and SLI latency issues.
* Implemented Dynatrace on different cloud technologies like AWS and GCP and Worked on Dynatrace APM End to End implementation.
* Performed built Elastic search, Log stash for centralized logging and then store logs, metrics into S3 bucket using Lambda function.
* Responsible for Installing, setup and Configuring Apache Kafka.
* Worked with Apache Kafka for High throughput for both publishing and subscribing, with disk structures that provide constant performance even with many terabytes of stored messages.
* Centralized monitoring and logging for the systems that are running on cloud and on-premises, using tools such as New Relic / Splunk.
* Knowledge on SimpleSAMLphp and Shibboleth to implement SAML2 authentication.
* Installed Jenkins on a Linux machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Used GIT tool to keep track of all work and all changes in source code.
* Very Well Versed in Documentation and Agile Methodology for Software Development Processes and Methodologies.
* I am part of the Scrum Team from its initial Maturity Level of 1 to a mature team of Level4

**Technical Skills:**

|  |  |
| --- | --- |
| Cloud | AWS(Certified), Open Stack, GCP, PCF |
| Networking | LDAP, DNS, NIS , NFS , FTP, DHCP , SSH. |
| Backup/Monitoring Tools | Nagios, Grafana, Prometheus, Cloud watch, Splunk, Datadog, New Relic |
| Version control Tools | Svn, Git, Bit Bucket |
| Automation Tools | Jenkins, Jira, Vagrant, Selenium Chef, puppet, Ansible, Salt, |
| Cluster & Container | ECS, Docker, Kubernetes |
| Web/Application Server | Tomcat, Apache, WebSphere, WebLogic, JBoss, AWS, HTTP Server Rackspace. Nginx |
| Scripting Languages | Kshell ,bash, bourne and python. |
| Database | DynamoDB, Oracle 9i/10g, oracle 11g RAC, MySQL, MySQL, Oracle, Mongo DB, Apache Cassandra |
| Virtualization | VMware, XEN, KVM, Vsphere client. |
| Configuration Tools | Ansible, Chef, Puppet, |

# VERIZON, IRVING, TX NOV 2023 – Current

# Devops/SRE LEAD eNGINEER

*Verizon's mobile network is the second-largest wireless carrier in the United States, with 143.3 million subscribers.*

* Worked on implementing clusters using Kubernetes and worked on creating pods, replication controllers, Name Spaces, deployments, labels, health checks, Ingress resources and Controllers by writing YAML files, integrated them using calico SDN networking and used Heapster monitoring platform on Kubernetes to report detailed resource usage information.
* Developed Microservice onboarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Creating the automated build and deployment process for application and leading up to building a continuous integration system for all our products using Jenkins.
* Installed and Configured Enterprise Jfrog Artifactory.
* Used Terraform a tool for building, changing, and versioning infrastructure safely and efficiently and worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Reduced build and deployment times by designing and implementing Docker workflow. Build and maintained docker container clusters managed by Kubernetes, utilized Kubernetes and docker for the runtime environment of the CI/CD system to build, test and deploy.
* Created pipelines for deploying code from GitHub to Kubernetes (K8s) cluster in the form of Docker containers using Spinnaker platform.
* Introduced Synthetic monitoring - Prometheus and Grafana and built dashboards around the Four Golden Signals to visualize SaaS product behaviors.
* Wrote customized Prometheus queries to retrieve data. Made changes to Prometheus collectors and filters, ensuring all relevant data are passed into Grafana.
* Used Docker Swarm to cluster the Containers for high availability and to manage different infrastructure resources, like physical machines, VMs and even Docker Container using Terraform.
* Act as incident and problem coordinator where required. Facilitate regular meetings and working sessions with IT team members and different business units to address on-going issues that require further understanding or analysis.

# Asurion, Nashville, tn Oct 2019 – oct 2023

# SRE LEAD ENGINEER (AWS/DEVOPS)

*Asurion is a global tech services company that helps more than 300 million customers in 21 countries unlock technology's untapped potential through Photo storage, Protection and Tech support.*

* Used Bash and Python, included Boto3 to supplement automation provided by Ansible and Terraform for tasks such as Encrypting EBS volumes, backing AMIs and scheduling Lambda functions for routine AWS tasks.
* Wrote python scripts to manage AWS resources from API calls using BOTO SDK and worked with AWS CLI.
* Implemented AWS Lambda functions to run scripts in response to events in Amazon Dynamo DB table or S3 bucket or to HTTP requests using Amazon API gateway.
* Installed and configured AWS Inspector. Created targets and templates and scheduled assessment runs on all EC2 instances in the AWS account.
* Worked with application teams to install operating system, Hadoop updates, patches, version upgrades as required. Integrated Kafka with Spark in sand box Environment.
* Integration of Application with monitoring tool New Relic for complete insight and proactive monitoring.
* Experience in using APM Configuration -New Relic to track the changes across CI/CD pipeline and infrastructure. Support and maintain log analytics frameworks via ELK (Elasticsearch, Logstash, Kibana)
* Worked on monitoring servers using Nagios, Cloud watch and using ELK Stack Elasticsearch Fluentd Kibana.
* Established infrastructure and service monitoring using Synthetic monitoring - Prometheus, Grafana, Elasticsearch, Kibana and fluentd, CloudWatch for logging and monitoring.
* Integrated Datadog cloud monitoring tool with PagerDuty for triggering real time alerts to POCs.
* Created APM Configuration -Data dog dashboards for various applications and monitored Realtime and historical metrics.
* Created system alerts using various Data dog tools and alerted application teams based on the escalation matrix.
* Responsible on application Datadog checking metrics, creating SLO and SLI.
* Provided 24x7 production support and development environments. Ability to communicate requirements effectively to team members and manage applications.

# Paypal (HQ), SanJose, CA Jan 2018 – Oct 2019 DEVOPS/SRE Engineer lead (GCP)

*PayPal is the leading payment processors in the world with more than 148 million users and nine million payments processed daily in more than 200 currencies.*

* Specialized in provisioning EKS Kubernetes cluster on GKE Kubernetes cluster on GCP including masters, slave, RBAC, helm, kubectl, ingress controllers via Terraform foundation modules.
* Experience in setup and build GCP infrastructure using resources Shared service VPC model, Compute engine, Cloud Storage, Cloud SQL, IAM using the Terraform foundation modules.
* Responsible for Installation, Configuration Management, Maintenance and Systems Development of RedHat Linux, Linux / UNIX Systems.
* Design, build and manage the ELK (Elasticsearch, Logstash, and Kibana) cluster for centralized logging and search functionalities for the App.
* Specialized in provisioning the GCP Global HTTPS load balancer routes the traffic to GCP GKE cluster via Terraform modules.
* Integrated Jenkins/Helm/Kubernetes/Vault with GCP to perform semi-automated and automated releases to lower and production environments.
* Collected data to monitor the JVM garbage collector activity and used the data to visualize out-of-memory situations of applications in a Kibana dashboard which I created.
* Experience working with Docker Hub, Internal Docker Registry and Docker Engine.
* Provided end-user training for all Subversion (SVN)/GIT users to effectively use the tool.
* Developed build using ANT and MAVEN as build tools and used Jenkins to kick off the builds move from one environment to other non-prod environments.
* Designed a system using Kafka to auto - scale the backend servers based on the events throughput.
* Participated in 24x7 on call support rotation, owned high/critical system issues and engaged stakeholders through PagerDuty to resolve issues at earliest possible timeframe.
* Co-ordinate offshore development and manage day to day activities.

# Experian, COSTA MESA, CA Oct 2017 – Jan 2018

# AWS/Devops eNGINEER (secops) LEAD

*Experian is a global leader in consumer and business credit reporting and marketing services.*

* Deployed application updates using Jenkins. Triggering build on remote servers through Jenkins. Integrated Jenkins with various tools such as Nexus, Sonarqube, Checkmarx.
* On the DEV environment, executed scripts that will build docker images locally, tag docker images, automatically refresh authentication token and push the created/updated docker images to ECR registry.
* Monitored Network, File systems and process activity by installing AWS Inspector Software Agents on EC2 instances that are included in Assessments.
* Automated Amazon AWS GuardDuty to inspect and pull logs from various sources such as Amazon CloudTrail, Amazon VPC Flow and DNS logs for cloud automation.
* Used Amazon GuardDuty to prevent malicious activities for AWS EC2 instances, users and various AWS resources.
* Instrumented Infrastructure monitoring- Dynatrace with AWS EC2, Lambda applications.
* Worked on p1 and p2 issues using Dynatrace identified bottleneck issues.
* Design, build and manage the Synthetic monitoring - ELK (Elasticsearch, Logstash, and Kibana) cluster for centralized logging and search functionalities for the App.
* Implemented AWS code pipeline and created CloudFormation JSON templates in Terraform for Infrastructure as code.
* Deployment and implementation of Chef for infrastructure as code initiative.
* Worked on AWS Lambda functions development as part of the Micros services development.
* Using BotoAPI written Lambda functions for triggering and debugging the cloud watch metrics
* Managed Ansible Playbooks with Ansible modules, implemented CD automation using Ansible.
* Worked on setting up the policies to back the data from AWS S3 to AWS Glacier
* Experience in creating inventory, job templates and scheduling jobs using Ansible Tower.
* Deployed and migrated applications using AWS tools code pipeline, code commit, ops works & cloud formation.
* Environment: Docker, Git, Jenkins, EMR, Evident.IO, Ansible tower, Code Pipeline, Powershell, Groovy.

# Change Healthcare, Minneapolis Feb 2017–Oct 2017 Software eNGINEER – (AWS/dEVOPS)

*Change Healthcare is one of the largest, independent healthcare technology companies in the USA.*

* I’m working on EC2 instances with scripts, VPCs, net gateway, ACL, bastion host instance, public/private subnets, security groups, Elastic load balancer, elastic cache, S3, auto scaling group, ECS cluster, ECS tasks, ECS service, Route53, cloud front and elastic IP in AWS CLI.
* Worked with different AWS features like EC2, Workspaces, IAM, Cloud-Watch, Lambda.
* Automated the workflow of deploying AWS workspaces using python, for users
* Configured Application Load balancer (ALB) including high availability of ALB using various subnets in various availability zones, configured security settings and health check for application.
* Used Amazon Guard Duty to prevent malicious activities for AWS EC2 instances, users and various AWS resources.
* Created functions and assigned roles in AWS Lambda to run python scripts
* Good experience of AWS Elastic Block Storage (EBS), different volume types and use of various types of EBS volumes based on requirement.
* Implemented OAuth and OpenID for mobile and non-browser solutions using Ping Federate.
* Automated Deployment of Docker Image with AWS CLI Scripts and worked on docker container snapshots, removing images and managing docker volumes.
* Environment: AWS, Git, Jenkins, Docker, Jenkins, Maven, Jira, Chef, Ansible, WebLogic, Nexus, Shell, Python, Ngnix.

# analog devices, MASSACHUSETTS Aug 2016- jAN 2017

# AWS Engineer

*Analog Devices, Inc is an American multinational semiconductor company specializing in data conversion and signal processing technology*

**Responsibilities:**

* Hands on experience with an in-depth level of understanding in the strategy and practical implementation of AWS cloud-specific technologies including Elastic Compute Cloud (EC2), Simple Storage Services (S3), Route 53, CloudFormation, Elastic Bean Stalk, Virtual Private Cloud (VPC), RDS, Cloud Watch, Glacier, ELB (Load Balancers), and SNS, SWF.
* Application deployment and data migration on AWS Redshift.
* Configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier.
* Involved in leading Automation Deployment Team by working with Puppet.
* Automated the WordPress and MySQL container deployment in Docker using Python
* Implemented a CD pipeline involving Jenkins, Chef to complete the Automation from commit to Deployment. Involved in deployment of application on Azure server by creating packages
* Automation using Ansible/Puppet: Apache configuration.
* Created Python scripts to: Totally automate AWS services which includes web servers, ELB, CloudFront distribution, database, ec2 and database security groups, S3 bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Experience running LAMP (Linux, Apache, MySQL, and PHP) systems in agile quick scale cloud environment.
* **Environment**: Git, Jenkins, Salt Stack CHEF, Maven, AWS, EC2, WebSphere, Ruby, Pearl, PHP, Putty, Cyber duck, Ansible, Apache tomcat, JBoss, Linux, Windows, MAC.

# care source, OHIO OCT 13 – JUNE 2015

# AWS/Devops Engineer

*Care Source is a non-profit that began as a managed health care plan serving Medicaid members in Ohio. Today, it provides public health care programs including Medicaid, Medicare, and Marketplace*

**Responsibilities:**

* Involved in designing and deploying multitude applications utilizing almost all of the AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS CloudFormation.
* Configuration Management with Chef, Docker Kubernetes, and other tools for use in production, staging, QA, and development.
* Used MySQL, DynamoDB and Elastic ache to perform basic database administration.
* Manage amazon redshift clusters such as launching the cluster and specifying the node type as well.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar servers such as Apache, and IIS.
* Implemented automated local user provisioning instances created in AWS cloud.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Used Ansible server and workstation to manage and configure nodes.
* User, Group creation, monitoring and maintaining log for system status/health using Linux commands and Nagios system monitor.
* **Environment:** AWS EC2, S3, VMware, Tomcat Apache, CloudWatch, CloudFormation, DynamoDB, VPC, IAM, Nagios, Git, Chef, Linux, Data Centre Migration, Jenkins, Maven.

# Chamfer Software Technologies, INDIA

# Build Engineer July2010-Apr 2013

*Chamfer is well known for customized solutions for a range of key verticals and horizontals such as Banking & Financial Service, Insurance, Manufacturing, Logistics, Tele Communications and Health Care*

**Responsibilities:**

* Responsible for the development and maintenance of processes and associated scripts/tools for automated build, testing and deployment of the products to various developments. Contributed for daily build processes, including monitoring builds , break/fix management, issue tracking (JIRA), and identifying and resolving a wide variety of build -related issues for different products and versions.
* Provided presentations and trainings to users on CVS, SVN and SCM Best practices.
* Setup and configured Cruise Control for Continuous Integration and Release Management.
* **Environment:** TFS, Clearcase, Ant, Maven, MSBUILD, Ruby, Cruise Control, Hudson, ASP.NET, VBScript, VB.NET, SQL Server 2000, Windows 2000, CSS, HTML, DHTML, ADO.NET, T-SQL, Visual Studio.Net 2003 and Visual Source Safe

# teleparadigm networks, INDIA May 2008-June 2010

# Jr.LINUX System Administrator

*Teleparadigm Networks delivers software and IT services to clientele across the globe under service models that are unparalleled in the industry*

**Responsibilities:**

* Responsible for installing and configuration of RHEL, CentOS, and SuSe.
* Implemented day-to-day tasks in RHEL including user access, setting up sudo rules upgrading.
* Installed and configured RAID 0, RAID 1 and RAID 5.
* Kernel, firmware, and rpms as well as adding SAN disks.
* Installation and Configuration of SSH, TELNET, FTP, DHCP, DNS.
* Installation and configuration of NFS, NIS, TCP/IP and ZFS.
* Monitoring and troubleshooting issues of operating systems..
* Providing 24\*7 on-call support on rotation basis and Handling High priority incidents through bridge calls.
* **Environment**: RedHat Linux, Solaris 9/8/10, HP-UX 11.0, VMware ESX 4.x, Sun Enterprise 450/420R/250 Servers, Ultra Enterprise 2/1 Servers, SPARC server 1000, SPARC server 20 Enterprise Servers, SPARC server 1000/20, HP 9000 K, L, N class server.

**Educational Background**

* Completed Masters in Information Systems from Virginia International University from May 2015- June 2016.
* Completed Bachelors from Osmania University from 2005-2008.