**NAME: Achuta**

**Title: DevOps/Cloud Engineer**

**Email:** [**charantejaachuta@gmail.com**](mailto:charantejaachuta@gmail.com)

**Phone: +1 8482740722**

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**www.linkedin.com/in/charan-teja-achut**

**Professional Summary:**

Over 10 Years of experience in IT industry as DevOps/Cloud Engineer, Build/Release, configuration management, Network Engineer and Cloud Management in all phases of SDLC like Analysis, Design, Development, Deploying, Testing and Maintenance of various web-based applications.

* Expertise in **AWS Cloud** Services like **EC2, ELB, Auto Scaling, IAM, SNS, SQS, EKS, far gate, Dynamo DB, VPC, Route53, RDS, S3, Elastic search, Elastic File system (EFS), CloudWatch, Cloud Trail, Cloud Security, Lambda, Service Catalog, Kinesis, Redshift.**
* Experience in migrating applications from legacy data center to **AWS** and Worked with networking teams in configuring **AWS Direct Connect** to establish dedicated connection to datacenter.
* Experience in Azure Development worked in azure net applications**, Azure storages, Azure SQL Database, Virtual machines, Fabric Controller, Azure AD, Azure** search and notification hub.
* Involved in dealing with Windows Azure **IaaS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, VPN, Load Balancing, API Gateways, Auto Scaling**.
* Maintained and developed Docker images for a tech stack including **Cassandra, Kafka, Apache,** and several in house written java services running in Google Cloud (GCP) on Kubernetes.
* Extensive knowledge and practical experience in leveraging a wide range of GCP services, including Compute Engine, Kubernetes Engine, BigQuery, Dataflow, Pub/Sub, Cloud Functions, and more. Proficient in harnessing GCP capabilities to solve complex challenges and drive digital transformation.
* Involved in AWS EC2/VPC/S3/SQS/SNS based automation through Terraform and Adopted new features as they were released by Amazon, including ELB & EBS.
* Production experience in large environments using configuration management tools **Chef, Ansible and Puppet**.
* Worked on Docker compose to schedule multiple containers and written compose .yml files to configure and scale multiple application services.
* Worked on rolling updates using the deployments feature in **Kubernetes** and implemented **BLUE GREEN** deployment to maintain zero downtime to deploy process in **Tomcat**, **Nginx** using **Python** and **Shell Scripts** to automate log rotation of multiple logs from web servers and automating administration tasks.
* Setting up multiple provider projects using Enterprise **OpenShift** container platform.
* Administered and Implemented Continuous Integration and Continuous deployment using various CI Tools like Jenkins, Hudson, Bamboo, and sonatype Nexus.
* GitLab's version control capabilities to manage infrastructure as code, including infrastructure provisioning scripts, configuration files, and application code.
* Configured and managed source code using GIT and resolved code merging conflicts in collaboration with application developers and provided a consistent environment and implemented Continuous Integration using Jenkins and GIT.
* Experience in using **Splunk, Prometheus, Grafana**, **AppDynamics, New Ralic, Data Dog** for monitoring the infrastructure and improving the performance of servers.
* Led and managed Python scripting projects throughout the entire development lifecycle, from concept to deployment, resulting in efficient and robust applications.
* Worked on **AWS, EC2, cloud services** for installing, configuring and troubleshooting on various components like Amazon Linux AMI, AIX, Redhat 5.x, Ubuntu 13.x, and 14.x.

**Technical Skills**:

|  |  |
| --- | --- |
| **Cloud Technologies** | AWS, Azure, Google Cloud |
| **Source control tools** | Git, Git Hub, Gitlab, Bitbucket, Git Hub Enterprise, SVN, TFS |
| **Configuration Management** | Ansible, Chef, puppet |
| **Build Tools** | Maven, Gradle, Ant |
| **Continuous Integration tools** | Jenkins, Bamboo, Team City, Bitbucket Pipelines, Gitlab CI |
| **Monitoring/logging tools** | Nagios, Splunk, ELK, New Relic, Prometheus, Grafana, AppDynamics |
| **Operating Systems** | Linux (Red Hat 4-7), CentOS, Ubuntu, Windows |
| **Change Management** | Service Now, JIRA |
| **Containerization** | Docker, Helm charts Vagrant |
| **Container Orchestration Tools** | Amazon ECS, Kubernetes, Open Shift, Docker swarm |

**Professional Experience:**

**Client: Pilot company**

**Role: Sr. Cloud/DevOps Engineer**

**Responsibilities:**

**Jan 2023 - Present**

* Working on provisioning, configuring, and troubleshooting of various AWS cloud services, EC2, S3, RDS, ELB, EBS, VPC, Route53, Auto scaling groups, Cloud watch, Cloud Front, IAM.
* Deployed configuration management and provisioning to AWS using Packer-Docker and Terraform, involved in automated deployments of EBS on to the AWS cloud ec2 instance server and automated the complete deployment environment on AWS.
* Designed roles and groups for users and resources using **AWS Identity Access Management (IAM)** and implement **Multi-Factor Authentication (MFA)** on externally available servers and on AWS Console, Monitoring and alerting leveraging **Cloud Watch** and **Cloud Trail**.
* Designing, implementing, and managing scalable and highly available cloud infrastructures on GCP using services like Compute Engine, Kubernetes Engine, and Cloud Load Balancing.
* Implementing Infrastructure as Code (IaC) using tools like Terraform or Deployment Manager, enabling version-controlled, automated provisioning of GCP resources.
* Creating multiple terraform modules to manage configuration, applications, services and automate installation process for web server and AWS instances.
* Deploying configuration management and provisioning to AWS using Packer-Docker and Terraform, involved in automated deployments of EBS on to the AWS cloud ec2 instance server and automated the complete deployment environment on AWS.
* Managing deployment automation using terraform to automate system operations.
* Working on **the Docker Registry** for storing in house docker images and using them for **CICD system** and assigning the volumes for the storage of docker images inside the system or else customizing the storage location using **Bing mount.**
* Working with **Docker Swarm** for integrating Custom Management with **Docker Engine** CLI to deploy application services, orchestrating them and scaling up and down of tasks and multi-host networking by using **Swarm Manager**.
* Configuring **Kubernetes** (k8s) Clusters for running microservices and pushed micro services into production with **Kubernetes** backed Infrastructure. Development of automation of **Kubernetes clusters** via playbooks in **Ansible**.
* Deploying **Kubernetes** Cluster on cloud/on-premises environments with master/minion architecture and wrote many YAML files to create many services like pods, deployments, auto scaling, load balancers, labels, health checks, Namespaces, Config Map.
* Building **docker images** using **Azure** pipelines and push to **Artifactory** and deploy to **OpenShift** containers using **Kubernetes** for the **Microservices**.
* Writing **Puppet manifests** and **modules** to automate the deployment process and to integrating **Puppet manifests** into **Jenkins** jobs for a Continuous Delivery (CD) framework to schedule the configuration management activities in the development, staging and production environments.
* Creating multiple Jenkins and Azure DevOps CI/CD Pipelines for our Infrastructure code validation and verification. (e.g., **Puppet, Terraform**).
* Utilized GitLab's version control capabilities to manage infrastructure as code, including infrastructure provisioning scripts, configuration files, and application code.
* Creating a fully Automated Build and Deployment Platform and coordinating code builds promotions and orchestrated deployments using **Jenkins**/**Hudson**, and **GitHub**.
* Implementing **multi-tier**application provisioning in **open stack**cloud, integrating it with **Ansible** migrating the application using **Maven**as build tool.
* configuration of the monitoring and alerting tools according to the requirements like **AWS Cloud Watch, Nagios**, **Splunk Enterprise, New Relic** for VPN connections
* Implementing Python scripts for auto-scaling and auto-remediation of cloud resources based on defined thresholds and policies, optimizing resource utilization and cost efficiency.
* Contributing to open-source Java projects or participating in hackathons to drive innovation within the DevOps community.

**Environments**:

Aws, Gcp, Terraform, Ansible, Docker, Kubernetes, OpenShift, Jenkins, GitLab, Git, Maven, Splunk, Python Scripting, Java.

**Client: Anthem Health**

**Role: Cloud DevOps Engineer**

**Responsibilities:**

**Jan 2022 - Dec 2022**

* Worked on Azure cloud services, **Azure storage, Azure active directory, Azure service Bus, IaaS, worker role, service bus, queue, Azure blob and table storages and API Management**.
* Create and manage **Azure AD tenants** and configure application integration with Azure AD. Integrate on-premises Windows AD tenants and Configure application integration with Azure AD.
* Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets.
* Integrated **Azure Log Analytics** with **Azure VMs** for monitoring the **log files**, store them, track metrics.
* Deployed and optimized two tier **Java, Python**web applications to **Azure DevOps CI/CD** to focus on development by using services such as **Repos** to commit codes, **Test Plans** to unit test, deploy **App Service**, **Azure Application Insight** collects health performance and usage data of the process, stored artifacts in blob storages.
* Using Terraform plans, created complex infrastructure which consists of following services in **Azure** such as VM’s Virtual Machine, Blob Storage, Security groups, Virtual Network (VNet), Disk storage, Auto scaling groups, High availability zones, Azure DNS, Azure AD, Azure DMS, Azure Databox, authentication to quickly deploy and manage the applications.
* Automating the infra provisioning on Azure using the **Terraform** code. Well versed in writing the terraform modules and maintaining the terraform state files in line with the existing Architecture.
* Written **Ansible Playbooks in YAML** as the Wrapper to **Manage Configurations** using **Python SDK** and Automated various infrastructure.
* Building **Docker** images includes setting the entry point and volumes. Also ran Docker containers.
* Containerization of Web application using **Docker** and Database maintenance.
* worked with Scheduling, deploying, managing container replicas onto a node using **Kubernetes** and created **Kubernetes** clusters work with **Helm charts** running on the same cluster resources, managed releases of **Helm** packages.
* Deployed multiple java applications in **Kubernetes** using **EKS** to maintain high availability.
* Worked with Red Hat **OpenShift** Container Platform for Docker and Kubernetes, Used Kubernetes to manage containerized applications using its nodes, ConfigMaps, selector, Services, and deployed application containers as Pods.
* Created a Jenkins pipeline to drive all micro-services builds out to Docker Hub and then deployed to Kubernetes.
* Integrated Subversion into **Jenkins** to automate the code check-out process.
* Utilized GitLab's version control capabilities to manage infrastructure as code, including infrastructure provisioning scripts, configuration files, and application code.
* Configured and managed source code using GIT and resolved code merging conflicts in collaboration with application developers and provided a consistent environment and implemented Continuous Integration using Jenkins and GIT.
* Developed build and deployment scripts using **MAVEN** as build tool and automated the build and deploy processes using Jenkins to move from one environment to other environments.
* Deployed Hawkular metrics and Prometheus with Grafana dashboard to monitor the OpenShift cluster.
* Developed PowerShell scripts to package and deploy applications using containerization technologies like Docker, enabling consistent application deployment across different cloud environments.
* Integrated .NET scripts with monitoring tools like Azure Monitor, AWS CloudWatch, or Grafana, automating metric collection and alerting for cloud resources and .NET applications.
* Used Jenkins to Implement Automated Application Deployment in production NoSQL Databases.
* Integrate on-premises Windows AD tenants and Configure application integration with Azure AD.

**Environments**:

Azure, Azure DevOps, Terraform, Ansible, Docker, Kubernetes, Open Shift, Gitlab, Git, Maven, Grafana, PowerShell script, .Net, Database, Windows.

**Client: Bank of Tokyo**

**Role: Sr. DevOps Engineer**

**Responsibilities:**

**Aug2018 – Dec2021**

* Designed **AWS** Cloud formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of web applications and database templates.
* **Created Lambda functions** to test the data consistency in S3 and involved in data transfer from Datacenters to cloud using AWS Import/Export Snowball service.
* Build data pipelines in airflow in GCP for ETL related jobs using different airflow operators both old and newer operators.
* Worked on GCP services like computer engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Writes Terraform scripts from scratch for building Development, Staging, Production, and Disaster Recovery for several cloud infrastructures.
* setting up the build and deployment automation for Terraform scripts using Jenkins.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in CloudFormation JSON templates.
* designed and managed complex AWS CloudFormation stacks, orchestrating the creation and update of multi-tiered infrastructure components.
* Written Chef Cookbooks and recipes in Ruby to provision several pre-prod environments consisting of Cassandra DB installations, WebLogic domain creations and several proprietary middleware installations.
* Designed and implemented disaster recovery solutions on OpenShift, including data backup and replication strategies to ensure data resiliency and business continuity.
* Created a robust and scalable **Jenkins** cluster with multiple nodes which helped in the orchestration of many pipelines including build, release, and deployment.
* Used Jenkins as a CI tool for performing the build automation.
* GitLab's repository management features to maintain a structured and organized codebase for efficient collaboration and version control.
* Created and updated Puppet manifests and modules, files, and packages stored in the GIT repository.
* Created and maintained **Maven Pom.XML** for performing the builds.
* Developed and scheduled new **Splunk** capacity dashboards, data models and performance reports to assist senior management in making business critical capacity decisions.
* Orchestrated complex multi-tier application deployments using Python scripts, ensuring consistent and reliable configurations across environments.
* Created and updated Bash scripts and modules, files, and packages.
* Automated setting up server infrastructure for the DevOps services shell **scripts.**
* Launching **AmazonEC2 Cloud Instances** using Amazon Web Services **Linux** and launched **DB (Aurora, Cassandra)** instances and installed applications on **AWS EC2** instances and configured the storage on S3 buckets.

**Environments**:

Aws, Gcp, Terraform, Cloud formation, Chef, OpenShift, Jenkins, Gitlab, Git, Maven, Splunk, Python Scripting, Bash, Linux.

**Client: Forge**

**Role: DevOps Engineer**

**Responsibilities:**

**March2017 – July2018**

* Responsible for management of complex **CI/CD** environment having AWS.
* Design and Implemented Cloud Orchestration solution using **AWS EC2.**
* Designed AWS CloudFormation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Leveraged version control systems like Git to maintain and track changes to CloudFormation templates.
* Created **Docker images** using a **Docker file**, worked on **Docker container snapshots**, removing images and managing Docker volumes.
* Used **Kubernetes** to manage containerized applications using its nodes and deployed application containers as Pods.
* Installed and Configured **Jenkins Plugins** to support the project specific tasks and Automated deployment of builds to different environments using Jenkins.
* Configured and managed source code using GIT and resolved code merging conflicts in collaboration with application developers and provided a consistent environment and implemented Continuous Integration using Jenkins and GIT.
* Configured dependencies and plugins in **Maven** pom.xml for various activities and integrated Maven with GitHub to manage and deploy project related tags.
* Improved monitoring with **Nagios** and custom plugins and developed utilities in **Perl**, including templates and configurations for **Nagios** and basic system configurations.
* Created scripts in **Python** which integrated with **Amazon** API to control instance operations.
* Developed scripts using **PERL, BASH and BATCH** files for Automation of Activities and builds.
* Configured and managed the **SSH, SSL**, NFS, FTP and SMTP servers on **LINUX.**

**Environments**:

Aws, Cloud formation, Docker, Kubernetes, Jenkins, Git, Maven, Nagios, Python, Bash, Perl, Linux.

**Client: Team Computers, Bangalore, India**

**Role: Build Release Engineer**

**Responsibilities:**

**Oct2015 – Feb2017**

* Participated in configuring and monitoring distributed and multiple platform servers using **Puppet. Used Puppet** server and workstation to manage and configure nodes.
* Worked on the configuration management tool **Puppet** for deploying the codes between different environments.
* Automated Continuous Build and Deploy Scripts for **Jenkins** Continuous Integration tool.
* Developed **Shell/Bash/Perl** Scripts for automation purposes.
* Installation, configuration and upgrade of red hat Linux 3/4/5/6, Oracle Linux 5/6 Cent OS 5.7 & operating systems.
* Configured the **yum** repositories for installing and updating the packages on the **Red Hat Linux**.
* Managed System Administration tasks during high deliverables for Linux servers.
* Responsible for automating the process of setting up the Linux clients for **AD Authentication**.
* Managed Red Hat Linux user accounts, groups, directories and file permissions.

**Environments**:

Puppet, Jenkins, Bash/Shell/Perl, Linux.

**Client: Great Labs PVT LTD, Bangalore, India**

**Role: System Administrator Responsibilities:**

**July2014 – Sept2015**

* Maintaining and administering computer networks and related computing environments including systems software, applications software, hardware, and configurations.
* L1/L2 support and troubleshooting to resolve the issue.
* Installation and Configuration of LCD Projector for Video conferencing and WebEx Presentations.
* Peripheral devices like printers & scanners etc. hardware and Software Maintenance.
* Installation, Configuration, Monitoring, Managing of CCTV.
* G-Suite Management and E-mail ID Assigning to Team.
* Firewall Configure and Wi-Fi Gateway server configuration Windows Server 2008/ 2012R2/ 2016R2, Active Directory, DHCP, Group Policy Management.
* Maintaining, configuring, and monitoring virus protection software.
* UNIX and Linux Flavors Centos, RHEL, Fedora installation, configuration.
* Hypervisor VM Ware ESXi installation, configuration.
* Hands on Experience on Mac OS Installation, Configuration, Upgradation & Troubleshooting.
* Video Conferring system arrangement & Maintenance.
* Stock of Spares, Desktop, Laptop, Consumables etc. management at site.
* Application support with Office 365, M S Office, SAP
* Business one.
* Vendor Management like cabling, Warranty, AMC suppliers of consumables, Surveillance camera, ISPs etc.
* Documenting day to day activities in the Standard Operations Procedure Creating Knowledge Base Articles for the New Issues.
* Asset Management (hardware, Peripherals, Microsoft license, Software etc.
* Creating Users & Groups /Deleting /Disabling /Unlocking /Resetting of AD users. Creating Groups in OU, adding AD users to AD groups and assigning Permissions to group members.
* Document Maintaining (Daily Operations Log, Symantec Console checking, AD Users review, Daily Calls Report, Monthly Report Preparation, Vendor Calls Report, Backup register report,).
* Manages workload to complete requests by the due time and due date.
* Contribute to quality and productivity improvement projects, providing analysis of information.
* Response & closure of calls within the Service Level Agreement.
* Monitoring Intrusion Prevention System, Malicious traffic passing through Firewall.
* Provide clear and unambiguous communication within Incident Management case tools with frequent and timely updates.
* Work with global colleagues to provide globally consistent processes and procedures.
* Direct liaison with business users and application development and support groups locally and regionally and Work on service requests of one or more types performed by the team.
* Performed in Setting up a New IT infrastructure for client locations and installing windows Servers in Physical servers as well in VM ware and Hyper V for application testing.
* Adding additional drives to the server, extending drive spaces, clearing drive space by deleting unwanted files and temporary files.
* Coordinating with Vendor for LAN point break down and new LAN port implementation and supporting for the Equipment PC’s and Printer and Networking, PM activities are carried out on a quarterly basis for all the assets, which are in warranty and AMC.
* Coordinating with the vendors for any types of IT related issues and different lines of services with SLA. Attending the incidents of laptop & desktops (Hardware & Software Troubleshooting) problems.
* End to end IT Support.
* Handling Day-to-day Activities and Day to day user related problems, such as problems related to

Login, mailing, printing, network monitoring etc. Call logging for all users’ issues. Then Handling first level day-to-day Escalations in the Location and for their all kind of technical queries and issues

* Daily checklist of the server for tuning the server performance. Troubleshooting Windows Server Issues (Windows Server2008 to 2016/R2): Server unexpected shutdown, unexpected reboots, WMI Alerts, Group Policy Alerts, Drive Space Issues, and Service Stopped Alerts.

**Environments**:

Windows, Office365, AD, VMWare, Cisco Firewalls, Cisco Routers, Cisco Servers.

**Client: SOGO I-TECH SOLUTIONS LLP, Bangalore, India**

**Role: Linux Administrator**

**Responsibilities:**

**May2013 – June2014**

* Automated setting up server infrastructure for the DevOps services, using shell scripts.
* Written shell scripts to monitor the logs after deployments and send emails automatically.
* Linux Flavors Centos, RHEL, Fedora installation, configuration.
* Linux systems administration in a lab environment for electrical and computer program students.
* Performance Management & Tuning of **Linux Kernel**.
* Performed **Kick start** installations in **Linux.**
* Experienced in configuration and maintenance of common Linux services such as Tomcat, Apache, MySQL, NFS, FTP, Postfix, LDAP, DHCP, DNS BIND, HTTP, HTTPS, SSH, iptables and firewall etc.
* Firewall Configure and Wi-Fi Gateway server configuration Windows Server 2008/ 2012R2/ 2016R2, Active Directory, DHCP, Group Policy Management.
* Daily checklist of the server for tuning the server performance. Troubleshooting Windows Server Issues (Windows Server2008 to 2016/R2): Server unexpected shutdown, unexpected reboots, Group Policy Alerts, Drive Space Issues, and Service Stopped Alerts.
* Performed in Setting up a New IT infrastructure for client locations and installing windows Servers in Physical servers’ application testing.

**Environments**:

Bash/Shell/Perl, Linux/Kickstart, Windows.