**Nagarjuna Chilaka**

**DevOps Engineer**

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**Professional Summary:**

Having 10 years of experience in IT industry, comprising of delivery management, design, development and release & deployment.

* Good experience on DevOps tools such as Puppet, Chef, Vagrant, VM Ware. Ansible, Jenkins, Maven, ANT, SVN, GIT, and Docker.
* Used Scripting languages like Ruby, Bash and configuration management tools Chef Puppet and web services like AWS**/**Azure.
* Experienced in implementing and administering monitoring tools such as Splunk and Nagios.
* Experienced in Branching, Merging, Tagging, and maintaining the version across the environments using SCM tools like Bitbucket and Git on Linux platforms.
* UsedGIT to keep track of all changes in source code.
* Integration, deployment and automation of application servers Tomcat, WebLogic across Linux platforms.
* Deployed webservers on to a Puppet slaves and scripted the class of the modules with ruby DSL.
* Application Deployments and Environment configuration using Puppet, Chef.
* UsedChef for server provisioning and automating infrastructure.
* Development and version control of Chef Cookbooks, testing of Cookbooks using Food critic and Test Kitchen and running recipes on nodes managed by on premise Chef Server.
* Well versed with Ansible Playbooks, modules, and roles.
* Set up Continuous Integration for major releases in Jenkins.
* Extensively worked on Jenkins for continuous integration and for End-to-End automation for all build and deployments.
* Knowledge and experience in creating Jenkins Pipeline.Managed multiple plugins in Jenkins.
* Experienced with Docker container service.
* Knowledge of network components like firewalls, protocols, routers, servers, load balancers, etc.
* Experience in administrating, deploying, and managing UBUNTU and CentOS servers.
* Experience in using Bug Tracking tools like Jira, Rally.
* Strong experience in working in Linux and Windows environments.
* Good analytical, problem solving, communication skills and can work either independently with little or no supervision or as a member of a team.
* Excellent written and verbal communication skills, strong organizational skills, and a hard-working team player.

**Technical Skills:**

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| **SCM Tool** | Bitbucket, GitHub, GitLab |
| **Build Tool** | ANT, MAVEN |
| **CI tools** | Jenkins, TeamCity |
| **Configuration management** | Puppet, Chef, Ansible. |
| **Scripting** | Python, bash shell, PowerShell |
| **Servers** | JBOSS, Apache Tomcat, WebLogic, Nginx |
| **Languages** | Java, Python |
| **Monitoring tools** | Nagios, AppDynamics, Grafana |
| **Database System** | SQL Server 2000/2008, Mongo db. Oracle 9i/10g-PL/SQL |
| **AWS RDS** | PostgreSQL, Aurora, MySQL, Dynamo DB, Redshift |
| **Linux flavors** | Centos 6.5,7, Ubuntu, Red hat, Solaris. |
| **Windows** | Windows NT/2003/2008, Windows XP, Vista, 7, 10 |

**Professional Experience**:

**Lucid Motors, Newark, CA Jan 2022 – Present**

**Role: DevOps Engineer / SRE Engineer and Build Infrastructure**

**Responsibilities:**

* Performing regular patching activities to meet the compliance.
* Strong knowledge of source control management and tools.
* Maintaining source control branches and performing integrations with merge conflicts.
* Experience in Continuous Integration (CI), Continuous Delivery (CD) model, Agile and DevOps.
* Involved in Automation Deployment Team by working with Ansible.
* Created Ansible Playbooks to deploy, manage, build, and configure the server environments to automate system operations.
* Using a Docker file,created Docker images and uploaded to Nexus artifactory.
* Deployed the docker containers in Kubernetes and monitored them using K8’s Platform.
* Uploaded and maintained WARs/EARs files in the Nexus Artifactory from where it is used to deploy in the instances.
* Launched instances in Azure for spinning up new environments and configured them as needed.
* Used Azure Cloud for setting up the Kubernetes nodes with the Kubernetes Master.
* Used ARM templates to launch a Stack in Azure to Auto Scale according to the traffic.
* Experience with Citrix and Application Virtualization technologies such as Citrix Virtual Apps and Desktops, VMware Horizon, or Microsoft Azure Virtual Desktop.
* Created and maintained Azure Virtual Network, Subnets, Azure Storage, Network Security Groups in Azure.
* Maintained all development tools and infrastructure and insure availability for a 24/7 development cycle with teams.
* Managed service accounts used in Jenkins, Kubernetes, Nexus across the project.
* Renewed certificates of environments coordinating with external teams as per the schedule to avoid downtimes.

**Environment & Tools:** Java, Maven, Nexus artifactory, Jenkins, Docker, JBoss, GIT, Code Cloud, On Prem Data Servers, Azure VM’s, Azure Virtual Network, Subnets, Azure Security Groups, Azure Load Balancers, Shell Scripts, Unix/ Linux environment

**Donato Technologies ,California, CA Nov 2020 - Jan 2022**

**Role:DevOps Engineer**

**Responsibilities:**

* Experience working with and operating build, CI (TeamCity and GitLab) and version control systems (Perforce and Git) running at scale in the cloud (AWS).
* Maintaining, and streamlining build and release pipeline from code compilation, automated testing to deploying releases to multiple environments.
* Active monitoring of CI/CD Pipelines. Automating and evolving the tools and processes used to monitor the pipelines.
* Creating and maintaining documentation of the build/release process.
* Handling branch closures and communicating with developers toperform code back-outsif needed.
* Used JIRA for triaging and driving defects.Providing a first line of support to developers on issues with code submissions, builds or unexpected test failures.
* Created Cloud Watch Alerts and setup SNS services for active monitoring.
* Created and maintained VPC’s, Subnets, CIDR block, Security Groups in AWS.
* Maintained all development tools and infrastructure and insure availability for a 24/7 development cycle with teams.
* To achieve Continuous Delivery goal on high scalable environment, used Docker to deploy the Java microservices in Docker containers over Kubernetes.
* Maintained container management using Docker by writing Docker files and setting up the automated build and deployment on Kubernetes.
* Versioning of the docker images was implemented to keep track and to roll back if needed.
* Managed service accounts used in TeamCity, Kubernetes, JFrog across the project.

**Environment & Tools:** Java, Python, JFrogartifactory, Slack,TeamCity, Docker, GitLab, On Prem Data Servers, AWS EC2, VPC, Load Balancers, Linux/Windows/Mac environment.

**|TCS, Austin TX|**

**Role : DevOps with Cloud Solutions Engineer March2016 – Oct 2020**

**Responsibilities:**

* Designed, implemented, and managed AWS cloud infrastructure for various projects, ensuring scalability, reliability, and security.
* Implement and maintain infrastructure as code using tools like Terraform, CloudFormation, or Ansible.
* Automate the provisioning and configuration of cloud resources.
* Establish and maintain CI/CD pipelines for automated testing, building, and

deploying applications.

* Integrate CI/CD tools such as Jenkins, GitLab CI, or CircleCI.
* Work with various cloud service providers (AWS, Azure, Google Cloud) to deploy and manage resources.
* Optimize cloud infrastructure for cost, performance, and scalability.
* Implement containerization using technologies like Docker.
* Orchestrate containers using tools such as Kubernetes.
* Collaborated with cross-functional teams to analyze and understand project requirements, translating them into effective cloud solutions.
* Utilized AWS services such as EC2, S3, RDS, Lambda, and IAM to optimize system performance and meet project objectives.
* Implemented and maintained monitoring and alerting systems to ensure the availability and performance of cloud resources.
* Conducted regular audits and implemented security best practices to safeguard AWS environments.
* Automated routine tasks using AWS CloudFormation and other Infrastructure as Code (IaC) tools, streamlining deployment processes.
* Provided technical support and troubleshooting for AWS-related issues, contributing to20% reduction in system downtime.
* Identify and address performance bottlenecks in applications and infrastructure.Optimize configurations for improved efficiency.
* Implement strategies for disaster recovery and ensure high availability of critical systems.
* Stayed current with industry trends and advancements, actively participating in training and certifications to enhance AWS expertise.

**Carpus Consulting Services -Hyd, India**

**Role : DevOps Engineer June 2013 –May2015**

**Responsibilities:**

* Installation, Administration, Support and Maintenance of RedHat Enterprise and CentOS on VMs and physical servers.
* Analyzing and resolving problems associated with servers, applications, and software.
* Work with the security team to modify application user’s password policies, group policy, UID and GID assignment policies.
* Experience in migrating and implementation of multiple applications from on premise to cloud using AWS services like SMS (Server Migration Service), DMS (Database Migration Service), SCT (Schema Conversion Tool), CloudFormation, S3, Route53, Glacier, EC2, RDS, SQS, SNS, Lambda and VPC
* Monitored tagging standards for proper identification and ownership of EC2 instances and other AWS resources.
* Designed roles and groups for users and resources using Identity Access Management (IAM).
* Initiated alarms in the CloudWatch service for monitoring the server's performance, CPU Utilization, disk usage etc. to take recommended actions for better performance.
* Worked on creation of Docker containers and Docker consoles for managing the application life cycle.
* Expertise in Installation & Setup of code versioning tools like GIT/SVN Repository (Version Control System) on Linux at the client side.
* Participated in the release cycle of the product, which involved development, QA, UAT and production.
* Installed and configured Jenkins and created parameterized jobs to kick off builds for different environments.
* Built Jenkins jobs to create AWS infrastructure from GitHub repos containing code.
* Extensive experience using Jenkins CI/CD pipelines, Maven as a Build Tool for the building of deployable artifacts from source code.
* Created and maintained the Shell deployment scripts for Tomcat and WebSphere application servers.
* Implemented & maintained the branching and build/release strategies utilizing subversion/GIT.

**Environments&Tools:** Red Hat Enterprise, Linux, VMware, AWS, Docker, GIT, Jenkins, Maven, Shell, Tomcat, WebSphere, Flask, Django.

**EDUCATIONAL QUALIFICATION:**

**Master’s in Computer Science**

Westcliff University, USA University of Cumberlands

**Education:**

Bachelor of Science in Computer Science | JNTU Hyderabad, 2013

**Certifications:**

AWS Certified Solutions Architect – Associate

**Skills:**

AWS Services: EC2, S3, RDS, Lambda, IAM, CloudFormation

Infrastructure as Code (IaC): AWS CloudFormation

Security: Auditing, Best Practices Implementation

Monitoring: CloudWatch

Automation: Scripting (e.g., Python), Automation Tools

Collaboration: Cross-Functional Communication

Troubleshooting: Problem Resolution and Analysis

**Achievements:**

* Designed and implemented a cost-effective cloud architecture for a high-traffic e-commerce website, resulting in a 30% reduction in infrastructure costs and a 20% increase in website speed.
* Developed and maintained cloud security best practices, resulting in zero security breaches over a two-year period and a 15% increase in customer trust.
* Researched and recommended new cloud technologies and services, resulting in the adoption of a new cloud-based monitoring tool that improved infrastructure visibility by 40%.
* Tailor the above template to match your specific experiences, achievements, and skills. This should give potential employers a clear understanding of your AWS expertise and contributions to previous roles.