**Chintalapudi R. Srujana**

**Work Status- H1B Visa**

**Valid till: Oct 2023**

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As a **DevOps Engineer** with 9+ years of experience in IT Infrastructure administration, configuration management tools support, Build, Release management process using DevOps and have a strong foundation in **AWS**, **Windows**, **UNIX, LINUX**, Public and Private **Cloud, Terraform, Ansible, Jenkins**, **CI/CD, Bash/Python Shell Scripting** and **Software Configuration Management Tools Implementation**.

**Professional Experience:**

* Worked in container-based technologies like **Docker**, **Kubernetes** and **OpenShift**.
* Design and implementation of Infrastructure and DevOps process in SDLC projects.
* Experience with **Amazon Web Service (AWS)** and with the configuration of various Amazon products (Amazon EC2, Elastic Load Balancing, Auto Scaling, Amazon S3, Amazon VPC, Amazon Route 53, Amazon SES, Amazon Cloud Formation, Amazon OpsWorks, and Amazon SNS, Amazon IAM, Amazon Cloud Watch, Amazon Elastic Beanstalk, Amazon RDS, ECS, EKS, ECR)
* Experience working in a Containerized environment, developing knowledge to create Kubernetes deployment YAML files, and creating **Kubernetes clusters** and **Docker swarm clusters**.
* Experience in creating **Docker file** and **Kubernetes deployment YMALs** from scratch to run **microservice-based applications** on AWS Cloud provider.
* Experience with several repositories such as **SVN**, **GIT**, **GitHub, Bitbucket, Nexus repo manager, JFrog repository**, **Jenkins**, **Bamboo, Yocto, Chef,** and **Puppet.**
* Experience with the migration projects from **SVN** to **GitHub** and **Bitbucket**.
* Works on the **DevOps/Agile** operations process and tools area (Code review, unit test automation, Build & Release automation, Environment, Service, Incident, and Change Management).
* Designing, implementing, and developing of DevOps Toolset in AWS/Azure.
* Experience with **CI/CD Pipeline** development in Jenkins and also have the expertise to develop **Jenkins file**. Member of group developing containerized applications; Docker, Spring Boot, Kubernetes, **OpenShift**.
* Experienced in **AWS Cloud** platform and its features, including **EC2, S3, VPC, EBS, ELB, IAM, AMI, SNS, RDS, Cloud Watch, Auto Scaling, and Lambda**.
* Strong knowledge of **Migration** from **Team Foundation Server(TFS)2008** to **2010**, Automating Builds, Branching, Security, maintaining the version control, creating and maintaining build definitions, continuous Integration, SharePoint Integration, Team Project Collection security, Configuring Analysis Services to work with Version control, Reporting services, Process template changes, and Work item Field changes and Workflow changes.
* Having experience in various **migration projects** on-prem to cloud and docker swarm to K8s cluster.
* Involved in setting up **JIRA** as a defect tracking system and configured various workflows, customizations, and plug-ins for the **JIRA** bug/issue tracker.
* Experienced in creating snapshots and **Amazon machine images (AMI)** of the instances for backup by creating clone instances and creating **Lambda** function to automate snapshot back up on **AWS** and set up the scheduled backup.
* Work with automation tools like **Terraform, Cloud Formation, Jenkins, TeamCity** to implement the End-to-End Automation.
* Experience in development and configuration experience with software provisioning tools like **Chef, Yocto,** **Puppet,** and **Ansible**.
* Experience in Ansible for Configuring and deploying to Application Servers Tomcat, WebLogic, and WebSphere.
* Experience in Integration and automation of source control applications like Subversion, **Git, Liquibase, Team Foundation Server, and Artifactory**.
* Manage large volumes of containers with Docker Swarm, Openshift,Kubernetes, and Mesos.
* Experience in developing **Dockerfile** and **Docker images**.
* Experience in Deploying to and administering in the use of **JBoss, Apache Tomcat web server, WebLogic, WebSphere.**
* Build Elastic search, Log stash, and Kibana (ELK) for centralized logging and then store logs and metrics into the S3 bucket using the Lambda function for more than two weeks.
* Have extensive experience in using Version control systems includes Subversion **(SVN), Servers WebLogic**.
* Experience in working with Tracking Tools **HP Service Center, JIRA**.
* Create development and test environments of different applications by provisioning Kubernetes clusters on **AWS using Docker, Bash, Chef, and Terraform.**
* Install, Configure, and Manage **Red Hat Linux 8/9**, **RHEL 3/4/5/6/7**, **Red Hat Satellite 6, OEL, 4/5,** and **SUSE Linux 10/11**.
* Work on continuous Integration based on **Maven** and **Hudson.**
* Experience with Scanning tools like **SonarQube** and **Veracode.**
* Configure and provide secured Web server interface, Session management, JBoss resources in Web Sphere*.*
* Develop automated and reusable builds and release processes for **Visual Studio and TFS, Batch Scripts.**
* Involve in Customization of Work Items, Transition Matrix in **TFS**.
* Integrate the Azure, AWS, and GCP platform with Chef and Ansible for configuration management and continuous deployment.

**Technical Skills:**

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| Operating Systems | UNIX, Ubuntu, LINUX, RHEL, Windows 2003/2008 XP/VISTA/7 |
| Cloud Platform | AWS, Azure, Cloud Watch, Yocto |
| Versioning Tools | GIT, SVN, GitHub, Bitbucket, CVS, SVN, Perforce, GIT, TFS |
| Bug Tracking Tools | JIRA, ServiceNow, CMDB |
| Build Tools | UDeploy, Jenkins, Ant, Maven, MS Build |
| Languages/Scripting | Python, bash script, PowerShell, .NET |
| Web Technologies | HTML, JavaScript, XML |
| Configuration Management tools | Puppet, Chef (12.2 & 12.4), Ansible, OpenShift |
| Automation Tool | Jenkins, Terraform, CirlceCI, TeamCity, Splunk, Openshit |
| Scanning Tool | SonarQube, Veracode |

**PROFESSIONAL EXPERIENCE:**

**Client: Westchester County govt., White Plains, NY June- 2018 to Present**

**Role: Sr. Build Release Engineer**

* Deployed databases in Private Subnets and configured Bastion Hosts and NAT-Gateways for access.
* Administered multiple AWS accounts for both production and non-production
* Configured several life-cycle policies for managing data in S3.
* Created Build Definitions for various environment deployment (DEV, TEST, and QA (STAGE).
* Implemented various Security policies using NACL, Security groups, Private-subnets, Encryption in transit and Encryption at rest, etc., into all configurations, backup, and recovery process monitoring.
* Used IAM services to create new IAM users, groups, roles, policies, and identity providers, as well as assigning least privilege.
* Created Autoscaling Group to scale EC2 instances. Managed **Openshift** master, nodes with upgrades, decommission them from active participation by evacuating the nodes and upgrading them.
* Developed Docker containers for DevOps designs and enabled interfaces for DevOps build and release management and CI/CD pipeline for applications
* Provisioned VPC and other components of the VPC using cloud formation and YAML language.
* Experience in using JIRA & Kanban board and Dynatrace for application performance monitoring
* Provisioned resources, users, and access controls on AWS cloud
* Monitored AWS applications using Cloud watch and Cloud trail.
* Performed database and data migration using cloud endure.
* Responsible for design and maintenance of the Subversion/GITRepositories, views, and the access control strategies
* Implemented Ansible for configuration management for the Linux environment.
* Built Linux and Windows VMs for DevOps environment.
* Built AWS Infrastructure using Cloud Formation Templates.
* Experienced in Scheduling AWS lambda functions from Cloud Watch triggers
* Defined Automation & CI/CD roadmaps to migrate applications to DevOps standards.
* Develop and maintain deploy jobs for application code deployment across all environments using a wide range of Automated tools (Jenkins, GitHub, Nexus, SonarQube, Yocto, Ansible, Puppet, and Docker).
* Generate reports with SonarQube to cover Code quality for potential bugs, code coverage, coding rules.
* Implemented AWS IAM key rotation in the application, using AWS Secrets Manager
* Built and deployed multiple applications utilizing Amazon S3, RDS, IAM, DynamoDB, SQS, and SNS, focusing on high-availability, fault tolerance, and auto-scaling.
* Used IAM to create new Accounts, Roles, and Groups and enabled Lambda functions for Roles' dynamic creation.
* Experienced at scheduling AWS Lambda functions to trigger various AWS resources.
* Initiated Microservices application through Openshift , Docker and Kubernetes cluster formation for scalability of the application and creating Docker images, upload/download in and out from the Docker Hub.
* Created cloud formation scripts for hosting software on the AWS cloud.
* Automated the installation of software through PowerShell scripts
* Used Terraform to provision application infrastructures employing tools like Autoscaling Groups, Security Group, VPC, Cloudwatch, etc.
* Developed AWS Cloudformation templates to create VPC, subnets, NAT, EC2 instances, ELB, Security Groups.
* Built a new CI pipeline. Testing and deployment automation with Docker and Jenkins.
* Assisted leadership with the ongoing development of policies and procedures for consistent product delivery
* Developed custom Architecture based on specifications and technical designs
* Participated in internal and customer meetings assisting with the ongoing evolution of technology offerings
* Troubleshooter applications hosted in the AWS platform to identify performance, connectivity, and security issues.
* Defined cloud network architecture using AWS Direct Connect and VPN to establish connectivity between on-premise and cloud
* Configured the appropriate VMs, storage, and network in AWS to support the customer workloads moving to AWS.
* Developed and implement monitoring, backup, and archival solutions in AWS to support customer requirements
* Automated manual tasks using Shell scripting.
* Deployed automation on AWS by using Elastic Beanstalk
* Designed Disaster Recovery architecture in the AWS.
* Used Cloud watch to set alarms, auto-scaling groups, generate notifications and respond to changes in AWS environments
* Designed and managed IAM roles for users, vendors, and other third-party vendors.
* Implemented Continuous Integration using Jenkins and GitHub to build and deploy artifacts to testing
* Used Route 53 policies to route traffic according to the geographical locations
* Designed and created alarms, notifications, and trigger events based on AWS resource utilization threshold.
* Wrote custom IAM policies to permit IAM users to access AWS resources and roles to resources to access each other.
* Set-up process, services, and tools around the cloud by leveraging appropriate AWS services.
* Reviewed the data coming from the cloud security tools and third-party/managed security service providers, coordinate with teams to address findings.
* Worked with the Cyber Protection team to perform security analysis and investigations of incidents involving the cloud components.
* Created VPC, route table, private and public subnets using naming conventions, CIDR range from scratch.
* Migrated applications from the internal data center to AWS.
* Built VPCs from scratch, creating private and public subnets, creating security groups and network access lists, configuring internet gateways, OpenVPN, created AMI, user access management/role-based access/multi-factor authentication and API access, configured Autoscaling and Elastic load balancer for scaling services, configured SNS to send notifications and Cloud Watch to collect logs and metrics.
* Assisted with set-up and managing of Linux servers on Amazon using EC2, EBS, ELB, Security Groups, and IAM.

**Environment**: Jenkins, Docker, Kubernetes, Openshift, SQL, Ansible, Yocto, Terraform, Web Sphere, Subversion, Maven, Tomcat, Nexus, Perl, Java/J2EE, Shell Scripts, ANT.

**Client: SUNY, New York, NY June -2017 to April- 2018**

**Role: Sr. Infrastructure Engineer**

* Design and implemented various **AWS infrastructure** to deploy Web-based applications.
* Design and implemented **CI/CD Pipeline** in different environments.
* **Managing four members team** to create, develop scripts, and deploying applications on AWS Cloud provider.
* Deep hands-on experience in implementing **AWS services** in a variety of distributed computing enterprise environments.
* Experience in designing the overall Virtual Private Cloud **VPC environment**, including server instances, storage instances, subnets, network access controls, security groups, availability zones, ECR, ECS, EKS, etc.
* Experience designing the **AWS** network architecture, including VPN connectivity between regions and collocations.
* Work closely with the development team to streamline new applications' deployment through the **CI/CD Pipeline** on the **Azure** Cloud Platform.
* Developing and managing the Containerization platforms with **Docker, Docker Swarm,** Openshift and **Kubernetes.**
* Designing and Developing **Dockerfile** and **Kubernetes deployment YAML** files to run the microservice-based application.
* Involve in designing, implementing, and developing of **DevOps Toolset** on **AWS/Azure** cloud platform.
* Manage **LINUX servers** on Cloud Platforms to secure the deployments.
* Work in the **Cloud migration** projects also migrated containers from docker swarm to K8s clusters.
* Create Nexus repo manager to store the artifacts and integrate it with the CI/CD pipeline to automate the artifact store functions. Worked with RedHat **OpenShift**Container Platform for **Docker**and **Kubernetes**.
* Integrate **SonarQube** and **Veracode** to scan the code quality in CI/CD.
* Managing large **SCM repositories** and also implemented branch strategies in the repositories.
* Work effectively with cross-functional design teams to create software solutions that elevated client-side experience and significantly improved overall functionality and performance. Involve in Configuring and monitoring distributed and **multi-platform servers using Chef**.
* Create **Ansible Playbooks and Terraform** scripts to manage systems configuration after consulting with network engineering staff to evaluate hardware and software requirements for new system development.
* Consult regularly with internal customers on application development project status, new project proposals, and software-related technical issues.
* Interact with a cross-functional team of business analysts, developers, and technical support professionals to determine a comprehensive list of requirement specifications for new applications.
* Manage and monitor all installed systems for the highest level of availability.
* Manage the use of various types of databases and configured, installed, and upgraded new ones.
* Create a design and implement system security and data assurance.
* Manage installation, upgrades, and deployment projects and provide on-site direction for network engineers.
* Monitor and test application performance to identify potential bottlenecks, develop solutions, and collaborate with developers on solution implementation.
* Redesigned and redeployed the Nagios implementation. Nodes automatically added/removed themselves via Puppet
* Make an essential contribution supporting end-to-end Platform application delivery, including Infrastructure provisioning & automation and Integration with Continuous Integration/Continuous Development (CI/CD) platforms, using existing and emerging technologies
* Experience in documenting security controls for DevOps and Cloud environments using industry-standard guidelines such as the Centre for Internet Security (CIS), Cloud Security Alliance (CSA) in conjunction with business requirements
* Work with IPS, DLP, Firewalls, SIEM, and security assessment tools/methodology (network, systems, and application).
* Provide architect solutions relating to security and HA for new or existing cloud architectures.
* Experience strong technical understanding to be able to validate that an environment meets all security and compliance controls.
* Implement the availability of infrastructure through enterprise-wide planning, thorough testing, efficient implementation, and comprehensive support.
* Assess the risk arising from third-parties, vendors, and partners in our ecosystem and design controls to mitigate such risks.
* Assist with security incidents that the company may face in alignment with our response processes.

**Environment**: Azure, Jenkins, Docker, Openshift, Kubernetes, SQL, Ansible, Terraform, Web Sphere, Subversion, Maven, Tomcat, Nexus, Perl, Java/J2EE, Shell Scripts, ANT.

**Client: Quest Diagnostics, Secaucus, NJ March- 2016 to April- 2017**

**Role: Sr. DevOps Engineer**

* Experienced in working in a hybrid IT configuration with customer workloads in multiple locations or cloud service providers.
* Worked implementing Identity and Access Management, Cloud, and PKI/Certificate Services.
* Experience with knowledge of web server technologies, including Apache Tomcat and Microsoft IIS.
* Gathered technical knowledge and customer insights to create a modernization roadmap and architected solutions to meet business and IT needs. Ensured new projects' technical viability, successfully deployed and orchestrate essential resources, and infused key infrastructure technologies (e.g., Windows and Linux IaaS, SAP, BCDR, Security, Management, Storage, Networking).
* Worked with design and managed public/private cloud infrastructures using Amazon Web Services, including EC2, S3, Cloud Front, Elastic File System, RDS, VPC, Direct Connect Route53, Cloud Watch, Cloud Trail, Cloud Formation, and IAM roles.
* Configured and managed Elastic Load Balancer (ELB-ALB) to avoid a single point of failure of application servers and web servers, thus providing high availability and network load balancing.
* Configured NACL and security groups, thus limiting malicious attacks from blacklisted range IP addresses.
* Analyzed complex project server issues and worked on large enterprise and business-critical applications
* Experienced with strong practiced and demonstrated knowledge of AWS Networking including VPCs (sharing and peering), NACLs, Security Groups, Routing, Subnets, NAT Gateways, ELB/ALB, Route53 Public and Private Zones and Resolvers
* Experienced with strong practiced and demonstrated knowledge of AWS Identity architecture and configuration for IDP SAML federation to services like Okta, AWS IAM User best practices, AWS IAM Role Assumption, and Trust/Perm Policies.
* Coordinated resources by working closely with project managers during release and carried deployments and builds on various environments using the Continuous Integration tool.
* Worked with Provisioning infrastructure in the AWS Cloud, specifically with Terraform.
* Experienced a thorough understanding of Cloud Computing: virtualization technologies, IaaS, PaaS, and SaaS cloud delivery models.
* Utilized Jenkins for enterprise-scale infrastructure configuration and application deployments - checking out code from SVN/GIT and use ANT/Maven to build Artifacts
* Worked a thorough understanding of infrastructure (firewalls, load balancers, hypervisor, storage, monitoring, security, etc.)

**Environment**: Amazon EC2, Amazon Web Services, Redshift, Docker, Java/J2EE, Chef, Subversion, Jenkins, Python Scripts, Groovy, Shell Scripts, JIRA, Amazon RDS DB services, Ant, Maven, Hive Cassandra, Cloud Watch, Git, Splunk, Red Hat, DNS Servers.

**Client: Virinchi Technologies, Hyderabad, India June 2013- May 2014**

**Role: Information Systems Analyst**

* Managing VMware and KVM Infrastructure, providing the solutions to integrate the DevOps for our Digital Journey.
* Migrations of Application from On-prem to Cloud, Openshift and Kubernetes Platforms.
* Architecting, implementing, and developing of DevOps process in current projects.
* Working closely with the development team to streamline the deployment of new applications through the CI/CD Pipeline.
* Manage Firewalls request between applications in Azure servers and On-prem servers and allocate On-prem secure load balancers with an Azure internal load balancer and open the ports between applications
* Developing the CI/CD Pipeline in Jenkins to automate the deployment.
* Achieved managed service providers status containers: Openshift, Kubernetes, Docker Automation: Linux: Built and maintained servers running Ubuntu, maintained azure servers
* Creating, supporting, and troubleshooting Infrastructure with Terraform and Ansible scripts.
* Designing and deploying DEV, UAT, and PROD environments on AWS/GCP Platform with LINUX servers.
* Write PowerShell scripts and modules to deploy, configure, and manage servers
* Creating and administrating Containerization platform with Openshift , Docker and Kubernetes.

**Environment**: Amazon EC2, Amazon Web Services, Openshift, Redshift, Docker, Java/J2EE, Chef, Subversion, Jenkins, Python Scripts, Groovy, Shell Scripts,Azure, JIRA, Amazon RDS DB services, Ant, Maven, Hive Cassandra, Cloud Watch, Git.

**Client: Virinchi Technologies, Hyderabad, India June 2010- May 2013**

**Role: Jr. Software Developer (Internship)**

**Responsibilities:**

* Conducted meetings/interviews and **JAD** sessions with stakeholders to collect business requirements.
* Responsible for understanding functionality at client side and knowledge transfer.
* Requirement Analysis.
* Implemented the project and fixed the bugs in the module.
* Used **JavaScript**, **CSS** **and HTML** to create **front**-**end** screens of the module, testing using **cucumber**.
* Developed **test** **cases** and **executed** them.
* **AngularJS, XML-JAXB, FILE I/0 NATIVE INTERFACE** for declarative programming.
* Involved in documenting the details related to Changes occurring in the system, following the Quality processes.
* Used **oracle 11g** to increase release velocity.
* Involved in Test Case creation for changes made to the system.
* Used **J2ee** **design** **patterns**, J**PA**, **JMS** (Java Message Service), **JSP, JSF,** CONTROLLERS, node.js, **WebLogic 10, structs a Hibernate.**
* Created job details, **activity diagrams**, **test cases** and **communicated** with the client on a regular basis.
* Adhere to the rules of the **validated** environment.
* Conducted data prep activities for system testing, regression testing & end to end testing using **MySQL** 3.5.
* Participated in peer **code** reviews.

**Environment**: **Java 1.5, Oracle 11g, XML-JAXB, WebLogic 10, JDBC, JSF, JNDI, jsb/controls, HIBERNATE, AngularJS, JSP, Eclipse IDE.**

**EDUCATION:**

* Master’s in Computer Science at University of Central Missouri, Warrensburg, Missouri, USA. GPA: 3.5. Aug 2014 - Dec 2015.
* Bachelor’s Degree in Information Technology at Bapatla Engineering College, Andhra Pradesh, INDIA. GPA: 70%. June 2010 - Apr 2013.
* Diploma in Computer Science from Bapatla Polytechnic College, Andhra Pradesh, INDIA. GPA: 72%.

June 2007 – Apr 2010.