**Kiran Putchala**

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**PROFESSIONAL SUMMARY**

* Over 6 years of IT experience as Devops Engineer and System administrator
* Certified by Amazon in AWS Solutions Architect – Associate
* Certified by Oracle in 1Z0-808: Oracle Certified Java SE 6 Programmer
* Strong experience in designing, fault tolerant, scalable solutions and distributed systems in AWS
* Proficient in leveraging CI and CD tools to automate testing and deployment
* Extensive working knowledge in working with broad range of Amazon Web Services like VPC, Subnets, ELB, Security Groups, Access Control Lists(ACL’s), S3, IAM, SNS, RDS, AutoScaling, Cloud Formation
* Strong experience in designing and creating AWS CloudFormation templates in setting up the environment using AWS CloudFormation stack
* Networking knowledge in AWS services like Virtual Private Cloud (VPC), Amazon Route53
* Experience in Agile Scrum Software Development methodology using Continuous Integration and Continuous Delivery (CI/CD) environment for efficient solutions
* Extensively used Git, GitHub version control tools to setup code repositories and manage source code
* Experience managing and implementing CI/CD pipeline using Jenkins
* Experience with Configuration management and containerization solutions such as Ansible, Puppet, Docker
* Experience in using Atlassian products like Jira, Confluence, Bitbucket
* Experience in creating Terraform scripts for designing a cloud agnostic environment
* Experience in using Vagrant to deploy the applications locally using Oracle Virtual Box
* Hands on experience configuring Nagios core server to monitor the application and web servers
* Experience in setting up the Bitbucket and Jenkins pipelines for continuous integration process
* Experience in using collaboration tools like HipChat and Slack as part of the Agile software practices
* Knowledge in packet management installation, updating and remove different packages using Yum, Brew
* Experience running LAMP (Linux, Apache, MySQL, PHP) stack in agile quick scale cloud environments
* Experience with web deployment technology specifically Linux/Nginx/Apache/Tomcat/Java
* Code repository management, code merge and quality checks with various tools especially Git, Nexus
* Experience in developing dynamic web application using technologies JSP, Servlets and JDBC for performing CRUD operations
* Experience in developing front end web pages using technologies like HTML5, CSS3, JavaScript, Bootstrap
* Experience using MAVEN build tool for building deployable artifacts and knowledge of Junit analysis tool
* Create and deliver knowledge sharing presentations and documentation to developer and operations teams
* Experience working in both Agile and Waterfall software development methodologies
* Good understanding of the principles and best practices of Software Configuration management in Agile, Scrum and Waterfall methodologies
* Have good working knowledge in Banking domain mainly credit cards, debit cards and card embossing along with Health care domain experience
* Effective communication skills and continuous interactions with the global clients and internal management
* Strong foundation in programming principles across multiple platforms and successful in both team and self- directed settings

**TECHNICAL SKILLS**

**Programming Languages** Java, JavaScript,Swift, Python

**Cloud Services** Amazon EC2, AWS VPC, Security Groups, ELB, IAM, CloudFormation, RDS, S3, AWS CloudWatch, SNS, AMI, Route53, AWS CLI, AWS Code Deploy, AWS Elastic Bean Stalk, Amazon ECS

**Continuous Integration** Jenkins

**Containerization Tools** Docker, Dockerhub, Harbor

**Configuration Management** Ansible, Puppet, Terraform

**Monitoring Tools** Nagios

**Web and Application Servers** Tomcat, GlassFish, WebSphere

**Source Code Management** Git, GitHub, Bitbucket

**Build Tools** Maven, Gradle

**Collaboration Tools** Jira, Slack, Confluence, HipChat

**Java/J2EE** Java OOPS, Servlets, JSP, JDBC

**Web Technologies** HTML5, CSS3, Bootstrap

**Query Languages** SQL, PL/SQL

**Databases** MySQL, Oracle, Back4App

**Operating Systems**  Windows XP/7, OS X, Linux

**EDUCATION**

**Master of Science in Applied Computer Science**

*Northwest Missouri State University, Maryville, MO*

**Bachelor of Technology (B.Tech)**

*JNT University, Kakinada, A.P, India*

**WORK EXPERIENCE**

**Softrams LLC, VA AWS Cloud/DevOps Engineer May 2016 - till date**

**Project:**

The Affordable Care Organization Management System (ACO-MS) project addresses the challenges that the Centers for Medicare & Medicaid Services (CMS) is having with enrolling ACO’s into the Medicare Shared Savings Program (SSP). Currently used legacy system called Health Plan Management System (HPMS) is replaced with modern and scalable system to support ACO participation management activities

**Responsibilities:**

* Configure and Maintain user accounts for teams using IAM and assign roles to them to access resources like EC2, RDS, S3, VPC, SNS
* Launching EC2 instances using Amazon web services (Linux/Ubuntu) and configure them as per the application requirements
* Configuring and networking of Virtual Private Cloud (VPC)
* Created AWS CloudFormation templates to create custom VPC, subnets, NAT, Security Groups, EC2 instances, ELBs to create a self-hosted environment for the application
* Setup Elastic Load Balancer for distributing traffic among multiple web and application servers
* Responsible for installing Jenkins on the server using AWS EC2 instance
* Setup the Continuous Integration/Continuous Deployment (CI/CD) process
* Experience in creating alarms and notifications for EC2 instances using CLOUDWATCH
* Configured Jenkins with GitHub and schedule the jobs on every commit made by the team using GitHub web hook
* Configured Jenkins using the Slack plugin to notify the team about the build and deploy job status with the appropriate information.
* Used GIT and GitHub for managing source code by resolving merge conflicts that occur during collaboration of various stakeholders of the application.
* Worked with Docker for convenient environment setup for development and testing
* Created Ansible playbook and roles to install and configure Jenkins
* Created Ansible Playbooks to deploy applications in the AWS EC2 nodes using Ansible Dynamic inventory
* Deployed applications to the corresponding nodes using Ansible driven by Jenkins
* Created Terraform scripts for designing a cloud agnostic model of the current infrastructure
* Maintained and enhanced existing puppet modules to be deployed across various providers and deployment architectures
* Deployed applications into AWS servers by configuring the service Elastic Bean Stalk to create required load balancers, EC2 instances
* Setup pipelines in Bitbucket and Jenkins for automation as part of the CI/CD process
* Easing the development and deployment pipeline with the implementation of Docker containerization to ship features maintaining security
* Installed Docker Registry for local upload and download of Docker images from Docker hub
* Implement quick and rapid provisioning by collaboratively working with cross functional teams through Agile Methodology
* Coordinating with development teams and recommending the changes needed to improve performance

**Environment:** AWS IAM, CloudFormation, EC2, VPC, Security Groups, AWS RDS, ELB, Git, GitHub, Jenkins, Docker, Ansible, Puppet, MySQL, Node JS, Red Hat Linux, Shell Scripts, Python, Angular JS, AWS ECS, Elastic Bean Stalk

**Tata Consultancy Services, India DevOps Engineer Jul 2013 - Feb 2016**

**Project:**

The FDR card transformation effort deals with making the United Services Automobile Association (USAA) credit card system non-dual (removing duality field which is currently used to identify card types in USAA), introducing separate entity (making the card and account numbers different) and relationship processing for other duality accounts

**Responsibilities:**

* User Administration and management like adding, changing and deleting user profiles and security authorizations
* Work closely with software developers and devops to debug software and system problems
* Created highly available and scalable infrastructure in AWS cloud by using various AWS services like EC2, VPC, RDS, Route 53
* Configured AWS EC2 instances using AMIs and launched them as per the specific application requirements
* Configured Elastic Load Balancers with EC2 Auto Scaling Groups
* Implemented CI/CD process using Jenkins along with shell scripts to automate routine jobs
* Created monitors, alarms and notifications for EC2 hosts using CloudWatch
* Configured S3 versioning and lifecycle policies to backup files and archive files to Glacier
* Worked in installation and configuration of DevOps tools like Jenkins, Docker
* Troubleshoot the build issue during the Jenkins build process
* Developing scripts for build, deployment using Jenkins, Docker and Maven
* Deployed Java/J2EE to a web application server in an CI environment and automated the whole process
* Wrote scripts to send automated notifications to users for individual applications
* Hands on experience in using Jenkins to deploy application to AWS cloud services using Puppet
* Performed and deployed builds for various environments like QA, Integration, UAT and Production
* Optimized Volumes and EC2 instances
* Experience in Load balancing and monitoring with tools like Nagios
* Branching, Tagging, Release activities on Version control tools
* Developed shell scripts for automation of the build and release process
* Automated the cloud deployment using AWS by using AWS CLI and Python (pip, boto, boto3), AWS Cloud Formation templates
* Setting up Docker hub private repository to upload the docker images
* Installing and configuring Ansible in the EC2 instances using Python Pip
* Develop custom scripts to monitor repositories, Server storage
* Interacted with Business Analyst to analyze and finalize the user requirements
* Coordinating with onsite and near shore team
* Good Experience on the IBM RTC tool and organized the epic, stories and tasks assigned
* Work with the project managers to create and design the software release plan
* Involved in various stages of Software Development Life Cycle (SDLC) of the application like requirements gathering, design, analysis and code development
* Experienced in working on agile operations process like Code review, Build and Release automation, Incident and Change Management.

**Environment:** AWS, Jenkins, GIT, Maven, WebSphere, Junit, Putty, Docker, Java/J2EE, Shell Scripts, Ansible, Puppet, RTC

**DataPro Technologies, India DevOps Engineer Apr 2012 - Apr 2013**

**Project:**

Fast Quote, insurance based application, deals with creating a new system which can be used by customers to buy new insurance policies and to claim the insurance they already have. The system is also used by the administrator to process the new requests and to generate quotes for these requests

**Responsibilities:**

* Managing Amazon web services(AWS) infrastructure with automation and configuration management tools such as Ansible
* Proficient in using Amazon web services like EC2, ELB, S3, VPC, Security Groups, ACL’s, Subnets, Route Tables, NAT, Route 53
* Experience in creating and configuring EC2 instances for different environments like Dev, Test and Production
* Used Puppet for monitoring Systems and automation
* Installation, configuration and administration of VMware
* Installed and configured monitoring tool Nagios for monitoring the network bandwidth and the hard drive status
* Developed & supported the Redhat Enterprise Linux (RHEL) based infrastructure in cloud infrastructure
* Worked on version controlling like GIT and integration tool Jenkins
* Configured YUM repository for installing packages from a centralized server
* Experience with production servers at multiple data centers
* Hands on Experience with configuration management tools like Puppet and Ansible
* Wrote custom modules and manifests, downloaded pre-written modules from puppet forge
* Installation and configuration of MySQL database in RedHat
* Used Maven as a building the code through Jenkins
* Setup Github repositories, creating branches, tags, creating users and groups and assign permissions
* Configuring and setting up Jenkins, created Jobs for automating the build process
* Configuring required plugins in Jenkins and updating them as needed

**Environment:** AWS Cloud, Linux, Puppet, Ansible, Git, Jenkins, Maven, RHEL

**Satya Technologies, India System Administrator Jul 2011 - Feb 2012**

**Responsibilities:**

* Installed and configured Red Hat Linux Servers
* Install new servers using kick-start installation and configuration method
* Implement disk configuration such as RAID 5 using Linux software RAID program
* Implementation of package management, FHS systems and LVM management
* Installation, configuration and management of Apache and Tomcat servers
* Install host firewall Iptables for Redhat Linux
* Administered local and remote servers on daily basis providing weekly status reports to the team lead
* Troubleshoot and resolve software and hardware problems
* Provided management of system process in areas like boot process, start-up and system shutdown
* Respond to security alerts with risk evaluation and monitoring unauthorized access attempts
* Diagnosed and resolved problems associated with DNS, DHCP, NFS and Apache
* Maintained user based security using password aging
* Optimize the security performance by tracking daily system utilization to determine if problems are imminent
* Supported end users and provided basic training to the new years as required.

**OPT**