**Sneha P**

**AWS/DevOps Engineer**

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**SUMMARY**

* DevOps Engineer with around 8 years of hands-on experience supporting, automating, and optimizing mission critical deployments in AWS, leveraging configuration management, CI/CD, and DevOps processes.

**TECHNICAL SKILLS**

* **Cloud Technologies**: AWS, EC2 Instance, S3 Bucket, Security Groups, Auto Scaling, AMI, RDS, Route 53, Cloud Front, Cloud Watch, IAM, Certificate Manager, Cloud Formation, Terraform, SNS, AWS CONFIG, Virtual Private Clouds (VPC), Lambda, ECS, Elastic Load Balancers (ELB), Relational Database Services (RDS).EMR, RedShift, Glue, Athena, WorkSpaces, AppMesh and CloudMap
* **Continuous integration & Deployment tools**: Jenkins/Hudson, Ansible, chef, Docker, Terraform, Kubernetes, Urban Code Deploy(UCD), CircleCI.
* **Database**: Oracle 8i/9i/11g, SQL Server, MySQL, JDBC, AWS RDS, RedShift.
* **IDE Tools**: Eclipse, IntelliJ, VisualStudioCode, Atom.
* **Scripting/Languages:**Java/J2EE, Python, Ruby, Bash/Shell Scripting, PowerShell, YAML, JSON, GoLang
* **Web Services**: SOAP, REST, Tomcat, WebLogic
* **Version and Source Control:** CVS, WinCVS, Clear Case, SVN, Git.
* **Operating Systems**: Windows 95/98/NT/XP/Vista/7, UNIX, LINUX, CIS Images.
* **Monitoring Tools**:ElasticSearch, Kibana (ELK), CloudWatch, Cloudtrial, Splunk, PagerDuty

**WORK EXPERIENCE**

**Client: VISA, Austin, TX**  **Jan 2022 – May 2023**

* **Role: DevOps/AWS Engineer**
* Monitoring Grafana and Splunk dashboards.
* Monitoring and diagnosis of systems for optimal performance
* Identifying, gathering, analyzing, and automating responses to key performance metrics, logs, and alerts.
* Provide solutions for performance management, disaster recovery, monitoring, and access management.
* Be part of the client’s scrum team and work on user stories
* Deep understanding of Infrastructure as a Code and agile methodologies
* Work/support business users to understand issues, develop root cause analysis and work with the team for the development of enhancements/fixes.
* Automate the provisioning of environments pulling strings with Puppet, cooking up some recipes with Chef, or through Ansible, and the deployment of those environments using containers, like Docker or Rocket: (and for the love of automation, at least have some configuration management tool through some version control
* Troubleshoot issues and participate in 24x7 on-call support, ensuring the stability and performance of the production environment.
* Works with the team to develop, maintain, and communicate current development schedules, timelines and development status
* Provide engineering design across different workloads including incident & problem management, change management, security, and compliance.
* Effectively respond to Monitoring alerts, create anomaly tickets and investigate for the root cause.
* Regularly connecting with dev team and production team for pushing alerts to live.
* Automation and development of operations tools, application dashboards, etc.
* Working on tickets provided from clients/customers and investigated and closing monitoring how the products work.
* Design and develop automation workflows, performing unit tests and conducting reviews to make sure your work is rigorously designed, elegantly coded, and effectively tuned for platform performance, and assessing the overall quality of delivered components

**Client: Excellus, Rochester, NY**  **July 2020 – Dec 2021**

**Role: DevOps/AWS Engineer**

* Worked with distributed teams to design and develop frameworks, solution accelerators, proofs of concept, and external customer facing products.
* Developed Python and shell scripts for automation of the build and release process.
* Improve speed, efficiency and scalability of the continuous integration environment, automating wherever possible using Python, Ruby, Shell and PowerShell Scripts.
* Developed CloudFormation code to create Infrastructure in multiple accounts in multiple regions including Windows and Linux server package deployments.
* Setup datadog monitoring across different servers and aws services.
* Monitored performance and history of infrastructure with tools such as CloudWatch, Datadog etc.
* Worked on AWS Active Directory and Directory Service to manage users and computers.
* Created Lambda function to use latest AMIs in EC2s adding additional bucket policies and start, stopping the instances.
* Integrated multiple Active Directory and on-premise Domains to one single parent Domain and managed all users from single Directory.
* Created deployment templates in Terraform for multi-cloud deployment.
* Implemented SonarQube and NexusIQ Scans on code build in CICD deployments.
* Created and maintained fully automated CI/CD pipelines for code deployment using Octopus Deploy and PowerShell.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
* Scheduled, deployed and managed container replicas onto a node cluster using Kubernetes.
* Created PowerShell scripts to automate Domain Controllers, AD users, GPOs and DNS etc.
* Configured Duo and Duo Access Gateway for AWS SSO.
* Responsible for automating EBS snapshots lifecycle.
* Work with Security division to design and manage IAM roles for users, vendors and other third-party customers.
* Responsible for building fault tolerant and high availability infra for applications.
* Created IAM user and group policies and managed IAM LDAP Identity Providers for AD users SSO to multiple AWS accounts based on their roles and permissions.
* Configured WorkSpaces to customer Administrators and automated the process using CloudFormation templates.
* Work closely with customers to help them set up CircleCI, both on circleci.com and in their own private cloud, including any custom setup they may need.
* Ensure thorough and complete monitoring of all environments and layers
* Code and commit relevant upgrades and changes to the CircleCI codebase.
* Implemented AWS Config and Firewall Manager Rules to monitor resource and application compliance and take remediate actions when necessary.
* Implement process and quality improvements through task automation. Institute infrastructure as code, security automation and routine maintenance tasks

**Client: Safeway, Pleasanton, CA Oct 2018– June 2020**

**Role: DevOps/AWS Engineer**

* Migrating and managing on-prem production infrastructure into an AWS cloud utilizing AWS Cloud formation, Chef, Jenkins, and Docker.
* Written multiple cookbooks in chef, implemented environments, roles, databags in chef for better environment and security management.
* Created pipeline project by using Bamboo, GitHub, SNOW, Jira, Gerrit and pushed artifacts to S3 bucket.
* Build systems to do automated validation, performance, and unit testing
* Daily tasks involve supporting multiple applications, resolving issues and deploying them in AWS.
* Enhancing JAVA application code into micro services and deploying them into AWS instances using Docker and ECS.
* Worked on setting up the pipeline jobs which runs to build the code, deploy the code to DEV, followed by QA environments and then running automated tests upon successful deployment.
* Implementing a Continuous Delivery framework using Jenkins, Chef, CloudFormation and Maven in Linux environment.
* Orchestration of Docker images and Containers using Kubernetes by creating master and node.
* Designed and developed the automated deployment and scaling processes based on Docker and Ansible for all the services.
* Experienced in branching, tagging, and maintaining the version across the Environments using SCM tools like Git, GitLab, GitHub and Subversion (SVN) on Linux and windows platforms.
* Working with container orchestration technologies like Kubernetes and cluster management technologies like Mesos and Docker.
* Design, implement and maintain a comprehensive monitoring solution
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Created multiple terraform modules to manage configurations, applications, services and automate installation process for Web Server and AWS Instances.
* Good experience in deploying and debugging applications in Linux and Windows AWS instances.
* Handling applications running in Mesosphere clusters and deploying and debugging them into production environment.

**Client: TreeSoft Solutions, Hyderabad - India**   **June 2014 – May 2018**

**Role: Software developer**

* Provided technical guidance to business analysts, gather the requirements and convert them into technical specifications/artifacts.
* Designed and developed Customer registration and login screens using HTML, JSF, Servlets and JavaScript.
* Wrote JavaScript validations to validate the fields of the user registration screen and login screen.
* Responsible for testing Apple Maps data REST API's
* interaction objects by implementing the DAO Patterns and used JDBC as Model Component.
* Configured JDBC and LDAP Security in the application server.
* Used log4j for tracking errors and debugging the code.
* Wrote build & deployment scripts using ANT, Maven, shell scripts and JACL on UNIX env.
* Implemented Spring MVC architecture.
* Involved in unit testing and system testing and responsible for preparing test scripts for the system testing.