SMRUTI RAMTEKE

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6 Years Relevant Experience as an efficient Cloud Engineer/ AWS DevOps Engineer

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PROFESSIONAL SUMMARY

Skilled Engineer with **6 years** of experience in Cloud Engineer and DevOps. A proven track record of success leading complex projects while managing cross-functional resources to drive efficiency in enterprise technology operations.

TECHNICAL SKILLS

Languages: Python, core Java, sql, Postgres

Services: AWS service EC2, VPC, RDS, IAM, S3, CloudWatch, CloudTrail, Trusted Adviser, Load Balancer, Direct Connect, Transit Gateway, CloudFront, SSM (System Service Manager), AWS Lambda, SNS, Auto Scaling, VPN, AWS organization, Route53, AWS Glue, CloudFormation, EKS, ECS, AWS Cost Optimization, security hub.

Tools & DevOps: Terraform, Git- action, Bitbucket, GitHub, CI/CD, CloudFormation

Soft Skills: Leadership, Collaboration, Agile methodologies, Mentoring

Role Performed: Team lead, Cloud Engineer, AWS DevOps engineer, Cloud architect, Platform Engineer & mentor.

CERTIFICATION:

- **AWS Certified Solutions Architect Associate**

CAREER HIGHLIGHTS:

- As a Solutions Architect, it helped companies understand how to transform their IT infrastructure, operations & applications to make the most of the scalability, innovation & cost efficiency of the AWS platform.
- Demonstrated mastery in facilitating evaluation of AWS services VPC, EC2, RDS, IAM, S3, CloudWatch, CloudFormation, Route53, ECS, Load Balancers, Autoscaling, Lambda, Trusted Advisor, CloudFront, SSM, SNS, DynamoDB, EKS, Media Convert, Pinpoint, SES, WAF, CloudFront etc.
- Served on-site for a major financial services organization to optimize their cloud infrastructure, provide training and cloud awareness, perform upcoming migrations with AWS best practices.
- OS level troubleshooting, debugging and modification to solve production critical issues. Automate regular tasks using Shell Scripting and Crontab.
- Windows OS problem troubleshoots, debugging, modifying partition, network troubleshooting, User management, Permission management, FTP and SFTP, Web-services (Apache and Tomcat), DB services (MSSQL), Firewall management.
- Application architecture designing, modification and implementation. DNS management, logs management.
- Design stateful and stateless architecture for new application with Highly available and redundant infrastructure. Designing Vertically and Horizontally scalable architecture, deploy and manage the same.
- Good knowledge in establishing best practices and guidelines for selecting, developing, and implementing information systems within enterprise.
- Worked on security tools like Nessus.
- Designing Microservices architecture using AWS services, Docker and Kubernetes.
- Automate code deployment using tools like Jenkins, shell scripting, Git and bitbucket. CI/CD for continuous deployment of
- docker containers using Jenkins and AWS Native services.
- CI/CD for continuous deployment of Docker images in containers using Jenkins and AWS Developer tools.
- Good knowledge in establishing best practices and guidelines for selecting, developing, and

implementing information systems within Enterprise.

EXPERIENCE DETAILS

Tech Lead - Cognizant, *December 2022 to Present*

- Developed and managed data pipelines using AWS Glue, enabling seamless ETL (Extract, Transform, Load) processes for large datasets from multiple sources into AWS
- Designed and implemented ETL workflows with AWS Glue, automating the extraction, transformation, and loading of structured and semi-structured data to S3, and other data stores.
- Designed and implemented ETL workflows with AWS Glue, automating the extraction, transformation, and loading of structured and semi-structured data to S3, and other data stores.
- Utilized AWS Glue's built-in PySpark and Scala scripts to transform raw data into usable formats, ensuring data quality and consistency for analytics teams.
- Automated and scheduled data processing jobs in AWS Glue using AWS Glue triggers, with monitoring and logging through AWS CloudWatch to ensure job success and performance.
- Configured IAM roles and policies for secure access to AWS Glue jobs, databases, and other AWS resources, following best practices for data security and governance.
- Integrated data from diverse sources such as RDS, S3, DynamoDB, and external APIs into AWS Glue, supporting cross-platform analytics and business intelligence.
- Used Service Catalog product and created CloudFormation yaml script to be deployed AWS resources.
- Implemented CI/CD pipeline to automate deployment of AWS resources using CloudFormation template.

- Utilized **GitHub Actions** to implement robust **CI/CD pipelines**, automating build, test, and deployment processes.
- Developed and deployed **infrastructure-as-code (IaC)** using **Terraform**, triggered through GitHub Actions workflows.
- Integrated **SonarQube** into GitHub Actions for automated code quality and static analysis scanning.
- Designed and provisioned **AWS Lex infrastructure** using modular Terraform code, supporting multi-environment deployments (e.g., dev, staging, prod).
- Configured **Checkov** for automated Terraform code scanning, ensuring compliance with security and cloud best practices.

EPAM Systems, *May 2022 to December 2022*

- Implemented a scalable 3-tier architecture on AWS using Terraform, incorporating EC2 instances, IAM roles, Elastic Load Balancer, VPC configuration, Security Groups, VPC Endpoints, and S3 for secure and efficient infrastructure management.
- Provisioned and configured Amazon EKS clusters through Terraform to enable container orchestration with infrastructure as code, ensuring repeatability and scalability of Kubernetes deployments.
- Automated CI/CD pipeline setup by deploying GitHub Actions workflows using Terraform, streamlining code integration and delivery processes with infrastructure automation.
- Developed Groovy scripts to automate EKS cluster setup within Jenkins CI/CD pipelines, enabling seamless infrastructure provisioning and deployment automation.

Applied Cloud Computing, *Nov 2019 to April 2022*

- Designing & highly available and redundant architecture to deploy containerized applications based on JAVA using AWS managed services. (AWS Autoscaling, Load Balancers, Transit Gateway, Direct Connect, RDS, EC2, S3, Route 53, CloudWatch, Lambda, Etc.)
- Hardening of OS and AWS consoles following the AWS and CIS best practices.
- Rest encryption of every storage using custom KMS keys.
- Setting up a Secure Site-to-Site tunnel and direct connect between client and AWS VPC.
- Use SSM to automate patch management on cluster of servers
- Building a CI/CD pipeline to automate the docker deployment process.
- Use SSM to automate patch management on cluster of servers.

- Deployment strategy for scheduled containers and manual executable containers
- Static content delivery from s3 using CDN.
- Deployment of AWS services using cloud formation.
- Managing multiple windows and IIS websites.
- Ftp site creations for windows.
- Monitoring and alerts using CloudWatch.
- Configuration and managed the databases files in Microsoft SQL studio management.
- Patching of server using AWS system manager.
- Delivers enhancements and solutions for the existing cloud infrastructure that drive customer satisfaction and meet business goals.
- Setting up multi account architecture for major organization and multi tenancy operation.
- Setup monitoring and optimization of production application by providing root cause and remedy for current issues.
- Setup process for organizational level centralized control and change management.
- Launch RDS Instance and create a read replica of RDS.
- Use new relic for monitoring of infrastructure and Application.
- Migrate a RDS MySQL table to S3.
- Use an AWS Athena and AWS glue to fetch data from S3.
- Delivers enhancements and solutions for the existing cloud infrastructure that drives customers & satisfaction and meet business goals.
- Setting up multi account architecture for major organizations and multi tenancy operation.
- Setup monitoring and optimization of production application by providing root cause and remedy for current issues.
- Setup process for organizational level centralized control and change management
- Launch EKS setup using terraform.
- Used CloudFormation to launch AWS resources.

- Implemented video and audio transcoding workflows using Python scripting in AWS Lambda, AWS Media Convert, S3 for storage, and DynamoDB for metadata management, enabling format conversion and efficient media processing.
- Developed video stitching functionality to concatenate multiple video files into various formats, enhancing content delivery and user experience.
- Automated processing by reading URLs from S3, triggering AWS Lambda functions to submit media files to AWS Media Convert for transcoding, ensuring seamless and scalable media pipeline execution.
- Implemented encryption at rest for all storage resources using custom AWS KMS keys, ensuring data security and compliance with encryption standards.
- Configured secure Site-to-Site VPN tunnels and AWS Direct Connect to establish private, low-latency, and reliable connectivity between client infrastructure and AWS VPC.
- Automated patch management across server clusters using AWS Systems Manager (SSM), improving operational efficiency and maintaining system security.

EDUCATION QUALIFICATION

B.Tech (Computer Science & Technology), Usha Mittal Institute of Technology (SNDT, Mumbai)
 ➢ *Scored 60% aggregate*

Place: Pune   Smruti Ramteke