**SAI RAM**

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##### **PROFESSIONAL SUMMARY**

* Over 7+ years of specialized experience in DevOps, Cloud Infrastructure, and CI/CD automation, with strong expertise in various version control systems, build tools, and DevOps automation platforms.
* Adept in container-based deployments using Docker and Kubernetes, including the design and execution of CI/CD pipelines for continuous integration and delivery.
* Hands-on experience in defining and implementing infrastructure-as-code (IaC) with Terraform, managing large-scale infrastructure on AWS with services like EC2, VPC, S3, ELB, and Auto Scaling.
* Comprehensive knowledge of version control systems such as Git, and deployment automation using Jenkins, including distributed builds, job creation, and plug-in configurations.
* Proficient in managing Kubernetes clusters, including manifest file creation for Pods, Services, DaemonSets, and Persistent Volumes.
* Experience in Continuous Integration (CI) setup using Jenkins and CircleCI. Configured multiple jobs, created distributed builds, and performed plug-in Installations.
* Hands-on experience in modification changes and automating the Jenkins pipeline scripts
* Experience with Maven repository architecture
* Experience in working on AWS and its services like IAM, VPC, EC2, EBS, S3, ELB, Auto Scaling, Route 53, SQS, Cloud Watch, RDS, Cloud Formation, Cloud Front and SNS and creating custom sized VPC, subnets, NAT, EC2 instances, ELB and Security groups.
* Designed highly available, cost-effective, and fault tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balancer, and AMIs.
* Extensive experience in setting up and maintaining CI/CD pipelines with CircleCI for automated build, test, and deployment cycles.
* Expertise in cloud operations and infrastructure management using AWS, with a focus on optimizing cost, availability, and scalability.

##### **EDUCATIONAL QUALIFICATIONS**

| **Degree** | **Collage** | **Year of Passing** | **University** |
| --- | --- | --- | --- |
| M.Tech(EEE) | LBRC | 2014 | JNTUK |
| B.Tech(EEE) | CIET | 2012 | ANU |

##### **TECHNICAL SKILLS**

| Cloud Platforms | AWS (EC2, S3, RDS, Lambda, VPC, CloudWatch,Cloud Trail, ECR, EKS) |
| --- | --- |
| CI/CD Tools | CircleCI & Jenkins. |
| Microservices - Containerization | Docker, Kubernetes. |
| Infrastructure as Code | Terraform. |
| Version Control | Git, GitHub, Bitbucket |
| Build Tools | Maven |
| Operating Systems | Windows, Linux |
| Scripting Language | YML, Shell, Groovy. |
| Monitoring Tool | New Relic, Datadog. |
| Networking & Security | VPC, Security Groups, IAM, SSL/TLS, VPN, Firewall Configuration |
| Other DevOps Tools | Artifactory, Nexus, Black Duck, SonarQube. |

##### WORK HISTORY

| **COMPANY** | **POSITION** | **LOCATION** | **EMPLOYMENT** |
| --- | --- | --- | --- |
| Capgemini | DevOps Engineer | Hyderabad | January 2023 to till date |
| Bristlecone | Software Engineer | Bengaluru | October 2020 to December 2022 |
| EdTech Illuminate | Software Engineer | Bengaluru | October 2016 to September 2020 |

##### **PROJECT EXPERIENCE**

**Capgemini india pvt ltd**

**Project: Carrier Global**

**January 2024 to till date**

**Role: DevOps Engineer**

##### Carrier Global-Technology used.

| Cloud Platforms | AWS (EC2, S3, RDS, Redshift, Artifact repo, Lambda, VPC, CloudWatch,Cloud Trail, ECR, EKS) |
| --- | --- |
| CI/CD Tools | CircleCI |
| Microservices - Containerization | EKS |
| Infrastructure as Code | Cloud Formation. |
| Version Control | Bitbucket |
| Operating Systems | Windows, Linux |
| Scripting Language | YML. |
| Monitoring Tool | New Relic. |
| Networking & Security | VPC, Security Groups, IAM. |

**Responsibilities:**

* Set up and configured CircleCI pipelines for automated build, test, and deployment workflows, streamlining the release process for a major web application.
* Reduced deployment time by 40% through parallelizing build and test stages across multiple nodes.
* Ensured continuous feedback to developers by integrating automated test cases, reducing manual testing effort and improving release frequency.
* Implemented CI/CD Pipelines, Developed and maintained robust Continuous Integration and Continuous Deployment (CI/CD) pipelines using CircleCI, leveraging YAML scripts for seamless build and deployment processes across multiple projects.
* Job Parameterization and Dynamic Configuration: Enhanced scripts by parameterizing CircleCI jobs, allowing dynamic configuration based on different deployment scenarios, thereby increasing the flexibility and reusability of CI/CD pipelines.
* Script Optimization and Command Structure Development: Streamlined CI/CD processes by optimizing YAML scripts through structured command creation and effective shell scripting techniques, significantly improving build performance and reducing manual intervention.
* Docker and Helm Chart Integration, Developed and maintained Dockerfiles for containerization of applications, ensuring compatibility with various environments. Utilized Helm charts for efficient deployment and management of Kubernetes applications, facilitating rapid application delivery and version control.
* Kubernetes Deployment via EKS, Successfully deployed applications to Amazon EKS (Elastic Kubernetes Service) using CircleCI jobs, implementing best practices for container orchestration, scaling, and service management, while ensuring high availability and fault tolerance.
* Monitoring and Troubleshooting, Monitored CI/CD pipeline performance and troubleshooting issues in real-time, leveraging CircleCI insights and logs to proactively address potential failures, optimize workflows, and enhance overall deployment efficiency.
* Security Scanning with Black Duck, Integrated Black Duck scanning into the CircleCI pipeline to perform automated security assessments of open-source components, identifying vulnerabilities and ensuring compliance with security policies. Provided actionable reports and remediation guidelines to enhance code security.
* Performance Monitoring with New Relic, Implemented New Relic monitoring within the CI/CD workflow to gain insights into application performance and user experience post-deployment. Configured alerts and dashboards to monitor application metrics, enabling proactive identification and resolution of performance bottlenecks.
* Monitoring and Troubleshooting, Monitored CI/CD pipeline performance and troubleshooting issues in real-time, leveraging CircleCI insights and logs to proactively address potential failures, optimize workflows, and enhance overall deployment efficiency.
* Collaboration and Documentation, Collaborated with cross-functional teams, including development, QA, and operations, to ensure smooth integration of CI/CD practices into the development lifecycle. Created comprehensive documentation and runbooks for onboarding team members and maintaining CI/CD best practices.

**Capgemini india pvt ltd**

**Project: Discount Tire**

**January 2023 to December 2023**

**Role: DevOps Engineer**

##### Discount Tire - Technology used.

| Cloud Platforms | AWS (EC2, S3, RDS, Redshift, Artifact repo, Lambda, VPC, CloudWatch,Cloud Trail ) |
| --- | --- |
| Infrastructure as Code | Terraform |
| Version Control | Bitbucket |
| Operating Systems | Windows, Linux |
| Networking & Security | VPC, Security Groups, IAM. |

**Responsibilities:**

* Implemented and managed infrastructure as code (IaC) using Terraform to automate the provisioning of AWS resources like VPC, EC2, S3, and RDS.
* Defined modular, reusable Terraform templates to maintain a consistent cloud architecture, reducing deployment time by 30%.
* Developed automation scripts for scaling EC2 instances based on load, ensuring optimal performance during peak traffic times.
* Improved cost optimization by creating auto-scaling groups and automated resource termination processes during off-peak hours.
* Leveraged Infrastructure as Code (IaC) with Terraform to automate the creation of Lambda functions using both Python and Node.js runtimes, integrating multiple layers for improved modularity and functionality.
* Enhanced infrastructure scalability and maintainability by implementing Terraform modularization, promoting collaboration and ensuring streamlined infrastructure management in multi-team environments.
* Utilized Terraform workspaces to effectively separate and manage state files across different environments, optimizing the infrastructure provisioning process and ensuring smooth coordination across deployment pipelines.
* Optimized Terraform scripts by introducing modular components, parameters, and arguments, significantly improving code reusability, scalability, and efficiency in provisioning infrastructure across various cloud environments.
* Designed and automated DynamoDB resource creation and triggers for Lambda functions using Terraform, demonstrating expertise in serverless architecture and event-driven workflows, while ensuring seamless integration and operational efficiency.

**Bristlecone India Pvt. Ltd**

**Project: Illuminate.**

**1st October 20 till 30th December 2022**

**Role: Software Engineer**

##### Illuminate -Technology used.

| Cloud Platforms | AWS (EC2, S3, VPC, CloudWatch, Cloud Trail ) |
| --- | --- |
| Operating Systems | Windows, Linux |
| CI/CD Tools | Jenkins. |
| Microservices - Containerization | Docker, Kubernetes. |
| Version Control | Git, GitHub, Bitbucket |
| Build Tools | Maven |
| Operating Systems | Windows, Linux |
| Scripting Language | Shell & Groovy. |
| Monitoring Tool | Datadog. |

**Responsibilities:**

* Created a fully Automated Build and Deployment Platform using GIT, Jenkins, Maven, Tomcat
* Jenkins is used as a continuous integration tool for the build and deployment of JAVA code.
* Installed, configured, and administered Jenkins tool on Linux machines.
* Integrated GIT, and Apache Maven into Jenkins to automate the code check-out and Build process.
* Responsible for the Plugin Management and Jenkins Server Backup and Upgrade.
* Artifactory Server is used as a source for artifacts needed for a build, and a target to deploy artifacts generated in the build process
* Installed and Configured SonarQube Tool for code coverage, and Code Quality Tests.
* Writing Custom Docker files and Implementing Docker Multi-Stage build techniques for lightweight Docker images.
* Configuring the Docker containers and creating Docker files for different environments.
* Created Docker container images by tagging and pushing the images to Docker private registry.
* Involved in deploying the Docker images by using Kubernetes.
* Maintaining the Kubernetes cluster and Pods and creating users, and service accounts as per the requirements.
* Hand-on experience in delivering container-based deployments using Docker and Kubernetes Experience in writing manifest files for Deployment, Service, Pod, Daemon Sets, Persistent Volume (PV), Persistent Volume Claim (PVC), Storage, Namespaces.
* Worked with Infrastructure as a code tool like Terraform to create destroyable resources in AWS for easily Dev, Test Environments for cost optimization.
* Used EC2, Auto-scaling and VPC to build secure, highly scalable, and flexible systems.
* Creating alarms in the Cloud Watch service for monitoring the server's performance, CPU Utilization, disk usage, etc.
* Responsible for Maintaining smooth. Build and Release Management Process.
* Troubleshoot and resolve issues related to Build operations.

**EdTech Illuminate**

**Project: Illuminate.**

**Jan 2017 to Sept 2020**

**Role: Software Engineer**

##### Illuminate -Technology used.

| Cloud Platforms | AWS. |
| --- | --- |
| Operating Systems | Windows, Linux |
| CI/CD Tools | Jenkins. |
| Version Control | Bitbucket |
| Build Tools | Maven |
| Operating Systems | Windows, Linux |
| Scripting Language | Shell & Groovy. |

**Responsibilities:**

* Designing and deploying AWS solutions using EC2, S3, Elastic Load balancer (ELB), and auto-scaling groups.
* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and configuring launched instances with respect to specific applications.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic that allowed reaching one or more AWS EC2 instances.
* Working on Multiple AWS instances, setting the security groups, Elastic Load Balancer (ELB) and AMIs, and Auto scaling to design cost-effective and highly available systems.
* Configuring and Networking of Virtual Private Cloud (VPC).
* Creating S3 buckets and also managing policies for S3 buckets and Utilizing S3 buckets and Glacier for storage and backup on AWS.
* Manage/configure AWS services using ELB, SES, EC2, Route53, S3, Cloud Watch, Cloud Front, IAM, and VPC.
* Creating snapshots, AMIs, Elastic Ips, and managing EBS volumes.
* Good knowledge of Linux, Shell scripting, Web Applications, and Relational databases.
* Automated the creation of AMI’s for Production servers using shell script.
* Administration and maintenance of Redhat Linux, Windows Server 2000, 2003 and ESXi servers including user administration; startup and shutdown scripts; crontab, file system maintenance, backup scripting, and automation.
* Worked on creating new USERS, GROUPS, USER Management, PASSWORD Management, giving permissions to the users, and locking users.
* Involved in troubleshooting and fixing day-to-day problems of the applications in production, production-Fix, Development, and testing environments. Achieved 100 percent SLA for activating tickets and service restoration.
* Working on Docker containers setup for web application deployment into various environments.
* Configure jobs and pipelines using Jenkins. Troubleshoot problems arising from Build failures and Test failures.
* Coordination of code merges and deployments with DEV and QA teams. Collaboration with Development, QA, and other teams to ensure a smooth transition of deliverables through proper release channels.
* Created a continuous delivery pipeline from the ground up built with git, and Jenkins for Target's Finance Integration Team.
* Creating S3 buckets, managed policies for S3 buckets, and Utilized S3 buckets and Glacier for storage and backup on AWS.
* Generating daily Status report through script & sending to the client. Worked on various flavors of UNIX production support.

DECLARATION:

I hereby declare that the information given above is true to the best of my knowledge.