**Shobhan Pedduri**

**AWS DevOps engineer**

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**Location: Hyderabad**

**Technical skills:**

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| --- | --- |
| CI CD | Jenkins |
| IAC | Terraform |
| Source code | GitHub |
| Cloud Platform | AWS |
| Virtualization | VMware |
| Code editor | VS code |

**Experience Summary:**

* Having 7 years of total experience on AWS Cloud environment and DevOps Tools.
* Developed and automated CI/CD pipelines in Jenkins using Groovy scripts for efficient build and deployment workflows
* Automated deployment of builds to different environments using Jenkins.
* Experience in Kubernetes automated container orchestration.
* Deployed and managed Kubernetes applications using Helm charts for streamlined, repeatable, and scalable deployments
* Experience in Creating Infrastructure with Terraform and maintaining all templates under GitHub branches.
* Experienced in using Build Automation scripting like **Maven** as build tools for building deployable artifacts (JAR, WAR) from source code.
* Collaborated with developers and QA for agile release cycles.
* Experience in Testing Code in different environments and versions.
* Configured Grafana dashboards and alerts for real time monitoring of infrastructure and applications.
* Created Terraform Modules and Tested through Jenkin Jobs on Different Versions and Regions.
* Changed Terraform Versions with respect to task.
* Experience in working on AWS services like **IAM, VPC, EC2, EBS, S3, ELB, Auto Scaling, Route 53, and SNS** and create 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.
* Establishing connectivity to AWS Resources in another **VPC** in another region using AWS VPC Peering.
* Configured **S3 buckets** with various life cycle policies to archive the infrequently accessed data to Storage classes based on requirements.
* Creating alarms in **Cloud Watch** service for monitoring the server performance, CPU Utilization, disk usage.
* Experience in creating Load balancers and configuring rules for path-based routing.
* Experience in Creating ACL for S3bucket user Access settings.
* Used Amazon RDS to create snapshots and automate backup of database.
* Experience DevOps essential tools like **GIT**, **Jenkins**, **Nexus**, **Maven** to AWS and Managed Services like **EC2, S3, Route53, ELB, EBS**.
* Hands on experience in creating Jenkins jobs, plug-in installations, and setting up distributed builds using master/slave concepts.
* Creating Lambda functions which trigger on event basis for re sizing EBS volumes and starting and stopping the servers during idle times.
* Creating Lambda Functions for start and stop ec2 servers for cost optimization.
* Troubleshooting Servers and VPC networks during deployments of applications

**Education:**

* Btech in EEE from JNTU - Hyderabad

**Projects Handled:**

**Projects :**

**Project Name : Prudential Financial Insurance Company**

**Role: AWS Cloud Infra Engineer**

**Company name: Bydint IT Solutions private limited**

1. Creating Terraform modules for the project and using it for multiple templates,

2. Creating **IAM ROLES** and policies to restrict the access

3. Designed and documented CI/CD tools configuration management.

4. Automated deployment of builds to different environments using **Jenkins**.

5. Deploying micro service on EKS Cluster.

# Project #2

**Project Name : CITI BANK**

**Role : AWS Cloud Engineer**.

**Company name: Bydint IT Solutions private limited**

# Roles & Responsibilities:

* + Designing and deploying AWS solutions using **EC2, S3**, Elastic Load balancer (**ELB**), auto scaling groups.
  + Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
  + Configuring and Networking of Virtual Private Cloud (**VPC)**.
  + Creating **S3 buckets** and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
  + Used **Cloud Watch** to set alarms for notifications or automated actions, and to monitor logs for a better understanding and operation of the system.
  + Strong working knowledge on **GIT**.
  + Performing the regular tasks that include cloning, pulling the repositories, branching and merging.

# Project #3

**Project Name : Car to cloud**

**Role** **: AWS DevOps Engineer**.

**Company name : Cognizant technology and solutions**

1. Deployed microservices using Jenkins pipelines on EKS Cluster (ensured successful deployment of all services and validated pod health and swagger file accessibility.
2. Implement infrastructure as code using Terraform for consistent environment provisioning.
3. Managed containerized applications using Kubernetes for orchestration and scaling.
4. Acted as a scrum master, managing Jira user story's for the DevOps team.
5. Used AWS Console for infrastructure operations. Proficient in writing PSQL and MYSQL queries.
6. Utilized Rancher and EFK STACK (Elasticsearch, Fluentd, Kibana) For monitoring and logging purposes.
7. Collaborated with developers and QA for agile release cycles.

**Training for GEN-AI Project**

* Received hands-on training in Generative AI (GenAI) models including LLMs (Large Language Models), Neural Networks, GANs (Generative Adversarial Networks), Deep Learning, Machine Learning, DALL·E, GitHub Copilot, and Chatbots.
* Gained practical exposure to:
  + Writing and interpreting code snippets generated by AI.
  + Understanding how prompt engineering works and how AI models generate contextual responses.
  + Exploring backend processes behind AI model responses and their real-world applications.
* Developed foundational knowledge of how GenAI is shaping the future of software development, automation, and business innovation.

**Project #4**

**Client name: Intel**

**Company name: Cognizant technology and solutions**

1. Configured and managed VMs using VMware ESXI
2. Developed and maintained modular main. Groovy scripts for Jenkins pipelines.
3. Align Python code to prescriptive development document python style.