**Shivakarthik Pamulapati**

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**SUMMARY**

Sr DevOps Engineer with a successful track record in optimizing cloud infrastructure, automating workflows, and enhancing security. Proficient in AWS, Azure, and various programming languages. Experienced in cost-effective migrations and CI/CD implementation. Proven team player with strong problem-solving skills, committed to driving efficiency and reliability in IT operations.

**EXPERIENCE**

**Sr DevOps Engineer | Aptean | Atlanta, GA | June 2023 - Present**

• Migrated .Net Azure Function apps to self-managed AKS clusters, employing Docker files and Helm charts, resulting in a 30% cut in infrastructure costs.

• Streamlined infrastructure provisioning and management for diverse products with Terraform open source, optimizing backend configuration and state file management through Azure Storage Account.

• Designed Azure DevOps pipelines to deploy Terraform infrastructure, employing PowerShell and Bash scripts for efficient infrastructure configuration.

• Demonstrated proficiency in configuring and managing Active Directory Domain Services (AD DS), serving as a Domain Controller in Windows server environments.

**Sr DevOps Engineer | Calix | Remote | June 2022 - March 2023**

• Integrated AWS secrets managers as a secret backend for microservices hosted on AWS elastic Kubernetes service(EKS) to follow best practices, thereby reducing security risks.

• Spearheaded the adoption of External Secrets Operator, integrating AWS Secrets Manager and HashiCorp Vault to enhance

secrets management.

• Research working of popular workflow engines like airflow, argo workflows, dagster etc and standardized on airflow after multiple POC’s, thereby increased ops team productivity.

• Abstracted helm chart complexity by automating their generation via simple properties file containing developer inputs, thereby reducing manual effort by 70%.

• Automated Spark jobs deployment on Kubernetes using python, resulting in reduced manual effort by 60% and increased reliability of job execution.

**DevOps Engineer | Epsilon | Bangalore,India | January 2019 - July 2021**

• Developed and managed multi-cloud infrastructure using Terraform and shell scripting, leveraging remote backend on S3 to decrease human effort by 60%.

• Implemented CI/CD pipelines using GoCD to automatically spin up and tear down EC2 instances for development environments, reducing infrastructure costs by 40%.

• Collaborated on the development of a .NET Core application, deploying and managing its infrastructure across multiple cloud providers, and creating automated unit test cases for its business layers.

• Designed custom Inspec libraries for the automation framework using ruby, allowing the team to test more cloud services which are not supplied by Inspec, increasing productivity by 20%.

• Created a test automation framework for AWS and Azure infrastructure using Python Flask and Chef Inspec, reducing human effort by 50%.

• Built custom Inspec libraries for the automation framework, enabling the team to test more cloud services not supplied by Inspec and increasing productivity by 20%.

**DevOps Engineer | X | Bangalore,India | May 2017 - December 2018**

• Collaborated with a project team to build and deploy a .NET application hosted in AWS, deployed using Azure DevOps, resulting in a 50% reduction in deployment time.

• Primary responsibilities include building and deploying the applications onto different Environments like QA, UAT, and prod and experienced in various stages of the Software Development Life Cycle

• Implementing GoCD continuous integration tool, including installing the jobs, plans, and setting up the tool for deployment. Installed GoCD on a Linux Machine and created a master and slave configuration to enable multiple parallel builds through a build.

• Implemented agile and DevOps methodologies on existing projects, resulting in significant improvements in project

development efficiency and faster deployment times. Ensured that applications remained highly available in a 24/7 production environment by leveraging DevOps tools.

• Deployed applications within docker containers and worked with docker files to create container images, encompassing dependencies and configurations and managed images in docker hub.

**EDUCATION**

| **Master's in Computer Science | University of South Florida | Tampa,FL | 2023****B.Tech in Electronics and Communication Engineering | Pes University | Bangalore | 2017****CERTIFICATIONS** |
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| **AWS Certified Solutions Architect - Professional | 2023****AWS Certified Solutions Architect - Associate | 2019****SKILLS** |

**AWS: EC2, Autoscaling, VPC, ECS, ECR, Lambda, S3, RDS, IAM, Elasticache, Kinesis, DynamoDB, CloudWatch, CloudFormation, CloudFront, API Gateway, EMR, CodePIpeline, CodeDeploy, CodeBuild**

**Languages: Python, Ruby, Ruby on Rails, Javascript, NodeJS, Java, Groovy, Bash, Go, SQL,C,C#**

**Databases: MySQL, PostgreSQL, AWS Aurora, DynamoDB, Redis**

**Front End: HTML5, CSS, jQuery, AngularJS**

**Automation Tools: GoCD, Azure Devops, Ansible, Chef, Packer, Terraform, Inspec,Git, Shell scripting, CI/CD pipelines, haproxy, tomcat**

**Azure: Virtual Machines (VMs), Virtual Network, Container Instances, Azure Container Registry (ACR), Azure**

**Functions, Blob Storage, Azure Active Directory (AAD), Azure Cache for Redis, Azure Monitor, Azure Resource Manager (ARM), Azure DevOps Pipelines, Azure DevOps Repos, Azure DevOps Artifacts.**

**Logging and Observability: Prometheus, Grafana, Elasticsearch, Kafka, Logstash, Kibana**