



# Jerin Rathnam

## DevOps Engineer

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I write multi-cloud infrastructure deployment scripts using Terraform, a tool that I am proficient in. I also work with various cloud platforms, such as AWS, Azure, and GCP, and implement security and monitoring solutions for them. I have strong experience in tools such as CloudFormation, Ansible, Docker, Kubernetes, Grafana, Lambda, Linux, Packer, Atlantis, GitHub, and BitBucket.

I also have basic Python skills to write lambda functions for automation. I have been an AWS Certified Solution Architect - Associate (SAA-C02) since Jan 2022, which demonstrates my knowledge and expertise in designing and implementing scalable and secure solutions on AWS. I am passionate about learning new technologies and improving my skills in cloud engineering.

## Skills

AWS, GCP and Azure	Implemented Highly available and secured environment
CI/CD Pipeline	GitHub Actions, Bitbucket Pipelines, Jenkins, Cloud Native Pipelines
Terraform	Writing multi-cloud architecture with modules
Docker & Kubernetes	Implemented containerized Applications in EKS, GKE, AKS
Argo CD	Implemented deployment in Kubernetes Clusters
Atlantis	Manage Terraform workflow with VCS
CloudFormation	Writing various architectures in AWS
Ansible	Server configurations
AWS ECS	Containerized applications in AWS
Prometheus & Grafana	Monitoring Kubernetes Clusters
Helm	Configuring helm charts
Bash Script	Working with Linux commands
Python	Writing AWS Lambda Automation Scripts with Boto3

## Experience

### DevOps/Automation Engineer at EasyDeploy Technologies

*June 2022 - Current*

- Proficiently manage multi-environment infrastructure across AWS and GCP for a diverse clientele, leveraging Terraform to ensure efficient management and scalability across multiple projects.
- Develop Terraform modules for AWS, Azure, and GCP cloud services, reducing code duplication and enhancing code reusability across different cloud environments.
- Implemented Terraform workflows utilizing Atlantis, effectively managing Terraform implementations for all clients and seamlessly migrating workflows from Terraform Cloud to Atlantis.
- Engineered the deployment of EKS and GKE clusters in AWS and GCP using Terraform, including Helm installations of key tools such as Prometheus, Thanos, Grafana, Kubernetes Dashboard, Ingress controller, and Cluster Autoscaler. Configured persistent volume storage for Prometheus and Grafana, utilizing S3 for efficient data management.
- Established CI/CD pipelines with Jenkins, GitHub Actions, and Bitbucket Pipelines to deploy applications into EKS or GKE, utilizing ArgoCD for continuous monitoring of running applications in Kubernetes clusters.
- Managed server configurations with Ansible, developing Ansible scripts for various applications including Magento and Metabase, to automate DevOps processes in AWS.
- Developed Python scripts for Lambda automation to automate DevOps processes in AWS, enhancing operational efficiency.
- Managed golden AMIs in AWS using HashiCorp's Packer and Terraform, ensuring a secure and highly available infrastructure.
- Developed CloudFormation scripts to orchestrate the deployment of services and resources in AWS, ensuring infrastructure consistency and repeatability.
- Implemented HashiCorp's Vault server with Terraform to securely manage all credentials, enhancing security and compliance measures across all infrastructure components.
- Implemented secrets manager with rotation of secrets in all cloud platforms and Kubernetes clusters.
- Orchestrated the setup of multi-tier VPC with RDS, ECS cluster in a private subnet, and load balancer in a public subnet to facilitate user access to applications. Utilized AWS Lambda with API Gateway for serverless infrastructure. Configured AWS CodePipeline to deploy applications in ECS.

### AWS Devops Engineer as Freelancer

*April 2021 - April 2022*

- Writing terraform, CloudFormation scripts to deploy various AWS resources
- Writing SSM automations documents with bash, python to automate daily tasks.
- Writing AWS config rules to assess, audit AWS resources and write remediation scripts using lambda functions and SSM documents.
- Deploying Kubernetes clusters in AWS cloud using EKS or EC2 instances.
- Writing helm charts to deploy applications into Kubernetes cluster.
- Monitoring infrastructure using prometheus, grafana, ELK stacks.
- Keeping EC2 instance configuration persistent using ansible.

### Sales Executive at Aishwarya Pharmacy

*July 2018 - Jan 2020*

- Participated in prescription pharmaceutical and over-the-counter product inventory audits.
- Flagged potential drug interactions and allergies to prescribed medications for patients with different health conditions.

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## Certifications

- **AWS Certified Solutions Architect - Associate -2022**

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## Education

- **Bharathidasan University, Tiruchirappalli**
  - Bachelor of Science
  - Major in Chemistry

*Jun 2015 - Apr 2018*

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## Languages

- **Tamil - Native language**
- **English - Proficient**