



## G RAJASEKHAR | DEVOPS ENGINEER

Mobile: 9953700129 | email: raajasekharr@gmail.com

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### PROFESSIONAL SUMMARY

- A proactive result oriented IT Professional with 3 years of experience as a DevOps Engineer in configuration, build, release, and deployment.
  - Collaborated with Clients (India and USA) to design infrastructure in the cloud to achieve high availability, fault tolerance, performance, scalability and security of production systems.
  - Successfully achieved the clients' requirements by using the infrastructure management tool called Terraform to create customized Networks (VPC, IGW, RouteTable), NAT Gateway, EC2 instances, LoadBalancers, and Security groups.
  - Experience with AWS services like ELB, EC2, S3, EBS, VPC, Elastic IPs, Security Groups, Snapshots, AMIs, Route 53, Auto-Scaling, Network Connectivity troubleshooting, and VPC-peering.
  - Successfully deployed application of the clients to the public with the help of cloud and DevOps tools like GIT, SONARQUBE, NEXUS, JENKINS, ANSIBLE, TERRAFORM, DOCKER, and KUBERNETES.
  - As per client requirements, automated the application deployment in development, staging, and production environments.
  - Hosted the project-based web applications by using web servers like Apache, and Nginx.
  - Experience in using source code management tools like GITHUB, and BitBucket and worked on source code management client tools like GITBash, GIT-GUI, Putty, and Mobaxtreme.
  - Implemented a CI/CD pipeline involving GitHub/BitBucket, Jenkins, Ansible, SonarQube, and Nexus for complete automation from Git commit to deployment.
  - Integrated Jenkins CI tool with build automation tools like NPM, and Maven for building artifacts from source code.
  - Experienced in App Containerization technology Docker, creating Docker images, Containers, Docker Registry to store images, cloud-based registry Docker Hub, and K8S to manage containers.
  - Created production-grade Kubernetes cluster by using KOPS, RKE, and K3S.
  - Experienced in setting up Kubernetes cluster on AWS manually from scratch and Implementing an Ingress controller for Kubernetes services.
  - Kubernetes Hands-on experience with Pods, Replica Set, Deployment, and Services.
  - Strong grasp of Linux shell scripting and understanding of Python scripting.
  - Good hands-on experience with Ubuntu and CentOS operating systems.
  - Good at troubleshooting the bugs during build and deployment with support from ChatGPT.
  - Capable of grasping new technical concepts and utilizing them for productivity.
  - Good communication and interpersonal skills with leadership qualities and the ability to work efficiently in teamwork environments.
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## RELEVANT WORK EXPERIENCE

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### DevRabbit IT Solutions Private Ltd

Jr. DevOps Engineer | 20 September, 2021 - Present

#### Project #1:

Project Name: SmartQE, In-House Product

Company Name: DevRabbit

- Managed containerized applications using Kubernetes and achieved 99.99% uptime.
- Designed and implemented a continuous build-test-deployment system with multiple component pipelines using Jenkins to support weekly releases.
- Designed and implemented highly scalable and available Kubernetes clusters on AWS.
- Collaborated with development teams to design and implement a continuous deployment pipeline resulting in an 80% reduction in deployment failures.

#### Environment:

EC2, S3, IAM, Route53, VPC, EIP, NLB, Lambda, API Gateway, SCM, Ansible, Jenkins, SonarQube, GitHub, Kubernetes.

#### Project #2:

Project Name: SOFT(Sky On Finger Tips)

Company Name: Mythri Aviation, India

- Collaborated with the development team to design, build, and deploy an automated platform.
- Responsible for the design and maintenance of the GIT Repository and performed all necessary day-to-day GIT support for this project.
- Used IAM for creating roles, users, and groups and also implemented MFA to provide additional security to the client's AWS account.
- Implemented domain name service (DNS) through Route 53 to have highly available and scalable applications.
- Created AWS Services like VPC, subnets, routing tables, NAT gateway, and security groups by using the IaC tool called TerraForm.
- Implemented the SMS API into this project by completing the DLT(Distributed Ledger Technology) registration.
- Created a SendGrid account for email communication and generated API Keys and stored them in AWS Secret Manager.
- Installed Jenkins in the instance and created different users to provide access to the development team.
- Installed SonarQube in the instance and integrated it into the Jenkins pipeline for the code quality analysis.
- Integrated Ansible in the pipeline to automate configuration management.
- Responsible for maintaining the dev, staging, and production deployment pipelines.
- Implemented the one-click deployments for Dev, staging, and Production.

#### Environment:

Amazon Web Services, Ansible, Jenkins, GIT, ShellScripting, Terraform, SonarQube, GitHub, npm, and Ubuntu server.

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**Project #3:**

Project Name: SuiteAmerica

Company Name: SuiteAmerica, USA

- Collaborated with the development team to design, build, and deploy an automated platform.
- Installed, Configured and Administered Jenkins as a continuous integration & continuous deployment tool.
- Developed build using npm for NodeJS application.
- Prepared a Jenkins pipeline for SCM Checkout, Code Quality Test, generate build, and deployed the application to the AWS ElasticBeanstalk service.

**Environment:**

AWS Elastic Beanstalk, Ansible, Jenkins, GIT, SonarQube, GitHub, npm, and Ubuntu server.

**Project #4:**

Project Name: Microtroniks

Company Name: Microtroniks, India

- Prepared an on-prem server for this project by installing Apache web server, MySQL, aws- cli, purchased a domain in GoDaddy and create a subdomain and attached the public IP address of the server to serve the traffic to the subdomain.

**Environment:**

GoDaddy, Apache web server, MySQL, AWS Lambda, Serverless

**Digital Lynch**

DevOps Trainee | October, 2020 - September, 2021

- Established a VPC peering connection between two VPCs to route traffic between them.
- Used an Apache HTTP web server to launch a website on Centos instance.
- Used a Network Load Balancer to distribute the incoming traffic automatically across multiple EC2 instances.
- Deployed a LAMP (Linux, Apache HTTP, MySQL, PHP) stack application.
- Deployed an application by using a Docker container with the help of a Docker image (used both HTTPd image and Nginx image).
- By using KOPS, RKE, and K3S deployed a production-grade Kubernetes cluster.
- Creating and managing Pods, Deployments, services, Volumes, etc. using Kubernetes command.
- Implemented a security module using RBAC and TLS Certificates for the Kubernetes cluster using Certbot.
- Implemented Ingress controller for Kubernetes services.

**Environment:**

AWS, Docker, Kubernetes, Jenkins, Ansible, Git, Github.

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**HIGHER EDUCATION**

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**GITAM University, Visakhapatnam, Andhra Pradesh**

MTech - Specialization: Digital Systems and Signal Processing(DSSP)

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