RIYA SONI
DEVOPS & CLOUD ENGINEER

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Professional Skills

- Git and GitHub
- Jenkins
- AWS
- Terraform
- Docker
- Docker Swarm
- Kubernetes
- Linux & Shell Script
- ArgoCD
- Python
- Gitlab CI
- Prometheus & Grafana

Work Experience

Freelancing Projects
Jan 2023 – Dec 2023 | Remote

🔗 **AWS Voice Automation System**

- Tech Stack: Python, AWS, Dialogflow, Speech-to-Text, Text-to-Speech
- Created a Python-based AWS Voice Automation system enabling users to communicate instructions through speech, processed using Google Cloud's Speech-to-Text and interpreted via Dialogflow.
- The system coordinates AWS actions based on user intent, delivering responses in speech using Google Cloud's Text-to-Speech service, complemented by various Python libraries for enhanced capabilities.

🔗 **VPN Deployment with AWS Autoscaling**

- Tech Stack: Ec2, Autoscaler, Imagebuilder, S3, Python, Terraform
- Implemented a robust VPN solution as a DevOps Engineer, used Python scripting for the installation of OpenVPN and Squid proxy.
- Utilized AWS Image Builder to create a custom image from the configured VPN settings and implemented Terraform code for AWS autoscaling, enabling dynamic scaling of VPN servers across multiple AWS regions

🔗 **Kubernetes Cluster Setup with Terraform and Jenkins**

- Tech Stack: Terraform, Jenkins, Shell Script, AWS
- Implemented a resilient Kubernetes cluster on AWS using Terraform for Infrastructure as Code.
- Integrated shell scripts and Jenkins pipeline for automated, customizable provisioning and setup of multi-node clusters.

🔗 **KubeNinja**

- Tech Stack: Python, Flask, Kubernetes Python Client
- Developed a Python-based GUI tool for Kubernetes cluster management.
- Streamlines user interactions by providing an intuitive interface for creating, editing, viewing, and deleting Kubernetes entities.

Squareops Technologies Pvt. Ltd. | DevOps Engineer
Jan 2022 – Dec 2022 | Gurugram, India (Remote)

- Developed Terraform code to efficiently **manage IAM users, groups, roles, and policies** on AWS, including sending users' credentials to their email addresses using AWS SES.
- Designed and customized **Terraform modules** for various AWS services, such as **RDS, SNS, SQS, S3, EC2, Load Balancers, EKS, EFS, ElastiCache, Route53, VPC, and Security Groups**. These modules were used to create complete environments for applications, with Terraform state stored in an AWS S3 bucket.
- Established a **Jenkins pipeline** to deploy highly scalable infrastructure by utilizing the custom Terraform modules.
- Implemented Pre-commit hooks to enforce code linting, documentation, validation, and formatting checks for Terraform code.
- Created **shared libraries within Jenkins** and authored Groovy functions to enhance code reusability and reduce duplication in Jenkins files.
- Developed DSL scripts for creating various types of **Jenkins jobs**, including multi-branch, freestyle, and pipeline jobs.
- Developed a **Pull Request (PR) Builder** for a GitHub repository housing Terraform code for infrastructure creation. This builder automatically runs the Terraform plan, evaluates infrastructure costs for each GitHub PR submission, and provides feedback by commenting on the respective PR.
- Orchestrated a comprehensive **CI/CD pipeline** for building and pushing Docker images to Amazon Elastic Container Registry (ECR) and deploying applications on servers.

Futurenoob | DevOps Engineer
Jan 2021 – Jan 2022 | Stockholm Country, Sweden (Remote)

- Independently created and maintained a **multi-node Kubernetes cluster** from scratch.
- Containerized desktop **GUI** applications, such as Blender, OBS, and Krita, making them accessible through **web browsers**.
- Successfully containerized **Windows** applications like **Adobe Photoshop**, allowing them to be accessed via web browsers.
- Developed a **GPU-sharing** solution within the cluster, enabling multiple applications to utilize GPU resources **concurrently**.
- Mounted and efficiently managed Cloud Storage Buckets and Google Drive inside the containers, streamlining data access and storage within the environment.

Adhoc Networks Pvt. Ltd. | DevOps Intern
July 2020 - Dec 2020 | Jaipur Rajasthan

- Acquired knowledge in trending DevOps technologies, including Linux, Docker, Kubernetes, Git/GitHub, and Jenkins.
- Participated in building a **hands-on practice Exam portal** to enhance and streamline examination processes. Users can perform
- practical tasks directly in the lab's terminal, facilitating hands-on practice, such as executing Kubernetes (k8s) tasks in a pre-installed k8s environment.

Additional Experience

DevOps Content Creator and Trainer

- Established "**DevOps Pro**" YouTube channel to contribute to the DevOps community.
- Created educational content with animated explanations and hands-on demos.
- Provided expert guidance and tips for Certified Kubernetes Administrator (CKA) certification and received consistently positive **feedback** from learners.
- Conducted one-on-one training sessions on various DevOps tools and Kubernetes certifications.

Education

B.Tech, Computer Science | 2017 - 2021
Geetanjali Institute of Technical Studies | Aggregate: 85%

XII, Senior Secondary | 2016 - 2017
Rajasthan Board of Secondary Education | Aggregate: 85%

X, Secondary | 2014 - 2015
Rajasthan Board of Secondary Education | Aggregate: 82%

Certification

1. **CKA:** Certified Kubernetes Administrator
2. **CKS:** Certified Kubernetes Security Specialist
3. **HashiCorp Certified:** Terraform Associate

Honors and Awards

1. Certificate of appreciation for excellent performance at SquareOps Technologies.
2. Certificate of merit for 1st position in B.Tech.
3. Talent award from PATRIKA IN EDUCATION in 12th boards.
4. Recognized by Government of Rajasthan for outstanding performance in the 10th board.