**SAI NIHAR KATHULA**

*Senior DevOps Engineer*

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**Professional Summary**

Experienced **Senior DevOps Engineer** with **5+ years of expertise** in designing, automating, and maintaining cloud infrastructure across **AWS, Azure, and GCP** environments. Specialized in building robust **CI/CD pipelines**, deploying **containerized applications** with **Kubernetes**, and implementing **Infrastructure as Code (IaC)** using **Terraform**. Proven track record of **increasing system uptime** and **reducing security risks** through effective automation, monitoring, and collaboration with cross-functional teams. Passionate about driving operational excellence by merging **automation** with **security best practices**.

**Education**

**Master of Science in Information &amp; Technology**

Lindsey Wilson College | Columbia, Kentucky | August 2024

**Core Skills**

* **Cloud Platforms:** AWS, GCP, Microsoft Azure
* **Infrastructure as Code (IaC):** Terraform, CloudFormation, Ansible
* **CI/CD Tools:** Jenkins, GitLab CI, GitHub Actions, Azure DevOps
* **Containerization & Orchestration:** Kubernetes, Docker, Helm, EKS, ECS
* **Monitoring & Logging:** Prometheus, Grafana, ELK Stack, CloudWatch
* **Networking & Security:** VPN, VPC, IAM, Security Groups, MySQL, RDS
* **Scripting & Version Control:** Python, Bash, YAML, Git, GitHub, GitLab

**Professional Experience**

**Senior DevOps Engineer**

*Lowe's Companies, Inc. -Feb 2023 -present*

* **Architected and deployed** secure, scalable **cloud infrastructure** using **Terraform**, **Docker**, and **Kubernetes**. Developed modular Terraform configurations to **standardize infrastructure**, **automate deployments**, and manage complex multi-service applications across **AWS environments**.
* **Delivered cost-effective** serverless solutions leveraging **AWS API Gateway, Lambda, and DynamoDB**, resulting in enhanced performance and reduced infrastructure costs.
* **Designed and implemented** efficient **CI/CD pipelines** using **Jenkins, Git, and Maven**, automating build and deployment processes, optimizing version control, and streamlining workflows. Configured Jenkins master/slave architecture and integrated **SonarQube** for automated code quality assessments and enforcement of quality gates.
* **Deployed centralized** observability platforms like **Grafana, Prometheus, and Splunk** to enable real-time monitoring, alerting, and improved visibility across **development, testing**, and production environments. Led the **containerization** of applications with **Docker** and managed deployment on **Amazon EKS** with **Kubernetes orchestration**. Implemented service meshes and auto-scaling to ensure optimal performance and resource utilization.
* **Utilized** **Chef** **and** **Ansible** to automate configuration management and streamline infrastructure provisioning across multiple environments. Developed Chef recipes and **Ansible playbooks** to manage resources on **EC2** instances and on-premises servers, ensuring consistency and reliability in deployment processes.

**Senior DevOps Engineer**

Sprydo *Systems – Hyderabad, India | August 2020 – July 2022*

* **Managed and automated multi-cloud deployments** across **AWS** and **Azure**, supporting business-critical services with **98% uptime**.
* **Reduced deployment times by 40%** by automating infrastructure with **Terraform**, eliminating manual errors.
* **Configured and managed Kubernetes clusters** to support microservices architecture, optimizing resource usage and ensuring **high availability**.
* **Established secure VPN tunnels** between **AWS** and **Azure**, enabling seamless data transfer across networks.
* **Developed CI/CD pipelines** using **Jenkins**, automating build, test, and deployment processes, resulting in faster and more reliable releases.
* **Proactively monitored systems** with **Prometheus** and **Grafana**, enabling early issue detection through real-time alerts.
* **Strengthened infrastructure security** with **IAM roles, encrypted storage**, and **VPC security groups**, reducing risks of unauthorized access.

**Site Reliability Engineer (SRE)**

*BSNL Telecom – Hyderabad, India | May 2019 – June 2020*

* **Orchestrated multi-cloud infrastructure management** across **AWS** and **GCP**, implementing **autoscaling and failover mechanisms** to ensure system resilience.
* **Improved deployment efficiency by 30%** by implementing **IaC** with **Terraform and Ansible**, minimizing human intervention.
* **Enhanced CI/CD pipelines** with **GitLab CI**, reducing release cycles and minimizing downtime during production rollouts.
* **Collaborated with security teams** to ensure **GDPR and SOC2 compliance**, integrating security best practices throughout infrastructure.
* **Reduced security vulnerabilities by 30%** by monitoring infrastructure through the **ELK Stack**, ensuring quick remediation of potential risks.
* **Provided real-time production support**, minimizing downtime by swiftly resolving critical incidents and maintaining smooth operations.

**DevOps Engineer**

*Myntra – March 2018- April 2019*

* **Successfully led the migration** of on-premises and hybrid **cloud infrastructure** to **AWS and Azure**, overseeing the transition of multiple applications, **databases**, and services.
* **Developed and executed comprehensive** migration strategies that minimized downtime and ensured a smooth cutover for production environments.
* **Directed the resolution of high-priority** incidents in real-time production systems, performing root cause analysis and **troubleshooting** within complex, distributed cloud environments (**AWS, Azure, GCP**).
* **Imp**l**emented advanced monitoring solutions**, achieving a **40% reduction** in Mean Time to Recovery (**MTTR**) and enhancing operational efficiency

**Certifications**

* **AWS Certified Solutions Architect – Associate**
* **Certified Kubernetes Administrator (CKA)**

**Projects & Achievements**

* **Cloud Migration:** Led the migration of key services to **AWS**, reducing operational costs by 25%.
* **High Availability Setup:** Designed and deployed a highly available Kubernetes cluster with **zero downtime** during updates.
* **Security Enhancement:** Played a key role in **reducing security vulnerabilities by 30%** through the strategic implementation of **IAM policies** and **encrypted storage solutions**.

**Additional Information**

* **Work Authorization:** Eligible to work in the USA without sponsorship
* **Languages:** Fluent in English