

Vishnu Kosuri

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Professional Summary

I'm Cloud and DevOps Engineer with 5+ years of experience specializing in designing and automating secure, resilient, and scalable infrastructure. Hold a Master's degree and certifications in CKA and AWS DevOps Engineer. Proven success across AWS and Azure environments, with expertise in Kubernetes (EKS/AKS) orchestration and IaC using Terraform and Ansible. Expert in building advanced CI/CD pipelines (Jenkins/Harness.io/GitOps), implementing monitoring (Prometheus/Grafana), and maintaining GDPR/SOC2 compliance.

Education

THE UNIVERSITY OF TEXAS AT DALLAS | Dallas, TX

Master of Science: Information Technology Management.

Aug 2021 to May 2023

Solution Architect | IoT | Cloud Analytics | Cyber-Security | Agile Methodology | Product Management | Lean six sigma | Cyber Ark & IAM

Certifications

- Certified Kubernetes Administrator - [Click here to view credentials](#)
- AWS Devops Engineer - [Click here to view credentials](#)
- AWS Solution Architect(Professional) -[Click here to view credentials](#)
- AWS Solution Architect(Associate) - [Click here to view credentials](#)
- Prometheus Associate - [Click here to view credentials](#)

Environments/Tools

| RDS | Lambda | S3 | EC2 | ALB | Jenkins | GitOps | Terraform | Ansible | Kubernetes | Maven | Tomcat | Git | Salesforce | Docker | Prometheus | Grafana | IAM | Azure blob | Azure Functions | CDN | Redis Cache | Linux | Route 53 | EKS | AKS | API Gateway | ELK | DynamoDB | Agile | Canary | Blue/Green| Boto3 | Pandas | Nexus | SonarQube | Kafka |

Programming Skills

Python | Java Script | Groovy Scripting | Shell Scripting | SQL | Terraform | YAML Scripting | PromQL.

Work Experience

Devops Engineer

Covestro, Pittsburgh, PA.

October 2023 to Present

- Developed operators on kubernetes which managed rotation of container certificates periodically with 0 downtime resulting in improving process efficiency by 15%.
- Trained developers to use AWS services resulting in reducing AWS costs by 18% Year On Year.
- Developed Terraform Modules to fully automate and standardize cloud infrastructure provisioning, achieving a documented 90% increase in development velocity and deployment efficiency.
- Secured Infrastructure by introducing ITDR on S3 and by air tightening the infrastructure resulting in reducing vulnerabilities 99.99%.
- Deployed applications like kafka and ELK in K8s environment using Helm for supporting the AI initiative of the company by doing POC.
- Containerized application using Docker and deployed in Kubernetes cluster, improving application uptime to 99.95%.
- Reduced recurring production incidents by 30% through RCA and implementing automated runbooks for faster remediation.
- Automated process of changing auto rotating api token and RDS secrets by quarterly improving process efficiency.
- Automated the process of creating disaster recovery sites using ansible playbooks which improved the RTO by 95%.
- Mitigated 0 day vulnerabilities by converting to distroless images which enhanced deployment speeds and security.
- Implemented alerts and monitoring metrics using Prometheus and created dashboards using Grafana for performance visibility.
- Developed terraform modules for building cloud infrastructure and managed configurations by writing playbooks using YAML.
- Guided developer in instrumenting OpenTelemetry framework required for collection of required metrics and logs for identifying SLI & SLO.

Environment: GitOps, Terraform, Argo CD, Ansible, Service Now, Git, Prometheus, Grafana, EKS , AKS, Helm , Rancher, Confluence, JIRA.

Cloud Engineer

Regalix, Hyderabad, India.

February 2020 to July 2021

- Reported performance metrics by monitoring infrastructure using Prometheus and Grafana dashboard.
- Set up alarms and alerts by integrating AWS Lambda with CloudWatch to monitor resources and notify using SNS and SQS .
- Managed user permissions by developing policies to maintain compliance by implementing RBAC and ABAC strategy.
- Established Infrastructure as Code (IaC) standards for managing core cloud resources, reducing environment drift and ensuring 100% repeatable infrastructure deployments.
- Reduced infrastructure costs by reengineering kubernetes solution, handling ELK stack costs, implementing managed services.
- Created dashboards for monitoring a distributed platform, reducing critical incident MTTD by 40%.
- Conducted regular security assessments and audits to identify and mitigate risks and vulnerabilities using Nessus.
- Automated enterprise tasks by scripting playbooks in ansible for automating and managing servers configuration.
- Monitored and responded to security incidents and vulnerabilities, collaborating with cross-functional teams.

Environment: Terraform,AWS, Jira, ELK, Gitlab, AWS KMS, FinOps

Application Developer

Dell Technologies, Hyderabad, India

November 2017 to January 2020

- Developed Gii website in VMware environment with HTML/CSS and built dynamic RESTful APIs implementing "Ready-to-Ship" and "Build-to-Ship" logic, reducing order routing errors by 10%.
- Built RESTful APIs to integrate Oracle WMS and MySQL, providing instant order visibility and reducing latency by 50%.
- Implemented secure form-based login and JWT authorization across APIs, achieving 100% audit compliance and eliminating unauthorized access incidents.
- Designed a fully responsive UI using React, CSS(Bootstrap), leveraging Redux for centralized state management.
- Developed MySQL schemas and ETL pipelines to sync Oracle warehouse data, ensuring 99.8% data consistency and reducing reconciliation latency by 60%.

Environment: HTML, CSS,REACT, EXPRESS, RESTful API, Node.J.S, Jenkins, Azure, PostMan, Jenkins.

Projects

• DevSecOps Pipeline - [Click Here to View Git Link](#)

Tools: Gitlab, Trivy, Docker, IAM, Sonarqube, Nexus, ECR, Argo CD.

Designed a robust DevSecOps pipeline with various security checkpoints like static code analysis, unit testing, Image, Secrets Scanning which identifies any security vulnerabilities in a production environment.

• AI-prompt-engineer-project - [Click Here to View Git Link](#)

Tools: Bedrock, Claude Sonnet 3.7, Cline, Docker, AWSCloud Formation.

Developed a Chem tracking application utilizing AWS services, including DynamoDB for storage, API Gateway and Lambda for CRUD operations, and Cognito for authentication.

• Infrastructure Governance for Compliance - [Click Here to View Git Link](#)

Tools: S3, Lambda, Boto3.

Developed python script to maintain compliance of Infrastructure resources which could autodetect infrastructure against organizational compliance and auto aligns as per rules defined.

• Deployed Ride-sharing Application - [Click Here to View Git Link](#)

Tools : Lambda, API Gateway, IAM, Cognito, DynamoDB, Amplify.

Deployed a web-application and enabled ride-sharing features which enables user to identify drivers using GPS tracking and secured endpoints implementing OIDC and OAuth2.0 protocols and managed from API gateway.

• ML Model Detect Flight Delays - [Click Here to View Git Link](#)

Tools: API Gateway, S3, Glue, SageMaker, Kinesis, Step Functions.

Developed a machine learning data model to detect fraudulent insurance claims by hyper tuning parameters to train data model which enabled in identifying anomalies.