

# CHIDHVILAS KACHAM

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## Summary

DevOps Engineer with hands-on experience in automating CI/CD pipelines and managing cloud deployments using AWS and Azure. Achievements include reducing release cycles by 30% through robust infrastructure automations and dynamic environment configurations. Skilled in code repository management, integrated testing, and agile delivery, with a proven track record of enhancing security and operational efficiency.

## EDUCATION

### University of Central Missouri

*Masters of Science, Computer Science*

**Aug 2022 - May 2024**

### GITAM University

*Bachelor of Technology, Computer Science and Engineering*

**Aug 2017 - Jun 2021**

## WORK EXPERIENCE

### NthLine Solutions, LLC

**Jan 2024 - Present**

*DevOps Engineer*

- Designed and implemented a scalable AWS infrastructure leveraging VPC and Route 53, significantly improving deployment efficiency and system scalability to support dynamic business needs.
- Implemented automated CI/CD pipelines using Terraform, Ansible, and CloudFormation that reduced release cycles by 30% and ensured effective integration of functional tests and continuous monitoring.
- Developed over 15 dynamic containerized application environments with Docker and Kubernetes, streamlining deployment processes and facilitating seamless code merge and automated build procedures.
- Enhanced AWS security by instituting advanced IAM policies and optimized VPC configurations, ensuring data protection, compliance with industry standards, and mitigating potential breaches.
- Authored Python and Bash scripts to automate repetitive cloud tasks, reducing deployment and management time by 20% while supporting both on-prem and cloud-based software deployments.
- Collaborated with five cross-functional teams and communicated deployment statuses effectively with Scrum team leadership, bolstering project completion rates by 20% through enhanced teamwork.
- Conducted monthly workshops for over 25 participants, sharing expertise in AWS and DevOps strategies, which fostered continuous learning and innovation across the organization.

## PROJECTS

### Online Pharmacy Management using DBMS

- Reduced human errors and improved data accuracy by utilizing a DBMS for data storage and management.
- Developed a resilient inventory management system that efficiently monitored stock levels, reducing costs significantly.

### Predicting Malicious URLs using Machine Learning

- Used Random Forest to demonstrate superior performance in imbalanced datasets and complex feature relationships.
- Feature engineering techniques such as sequential, variance threshold, and select K best to improve model accuracy.

### Cloud-Native Web Voting Application with Kubernetes

- Successfully deployed containerized applications using Kubernetes, harnessing its orchestration capabilities to ensure scalability, high availability, and efficient resource management.
- Decoupled front and backend microservices. Enabling independent development, deployment, and scaling.

## SKILLS

- AWS (VPC, Route 53, IAM, EKS, Multi-AZ/Region DR), AWS (ECS, S3, Lambda, CodeBuild, CodePipeline, CodeCommits, CloudWatch, ALB), Azure, Jenkins, Harness, Custom CI/CD Pipelines, GitHub, Azure DevOps, Terraform, CloudFormation, Ansible, Docker, Kubernetes (AWS EKS), Helm, Istio, Calico, Python, Bash, Golang, Maven, SQL, Prometheus, , Git, Code Repository Management, Code Merge, Quality Checks, Continuous Integration, Automated Deployment, Automated Build, Release Tooling, Automating Testing, Rollback Capability, Agile Delivery, Deploying Software On-Prem, Deploying Software To Cloud, Security, Subnetting, Routing, Firewalls, Public Vs Private Networks, Blue/Green Deployments, SonarQube, Ruby on Rails, OAuth, RBAC, GitHub Actions, CloudWatch, CloudFormation, Trivy, Aquasec, JUnit, Mockito, ArgoCD

## Achievements

- **Certified Kubernetes Administrator** : Kubernetes - Jun 2024
- **Publication**: Published a Journal on AN ANALYSIS ON FEATURE ENGINEERING AND NEURAL NETWORKS BASED ON MALICIOUS URL PREDICTION