

# Praveen Chukkapalli

United States

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## Summary

Experienced DevOps Engineer & Cloud Architect with a proven track record in orchestrating seamless cloud solutions. Specializing in AWS, Azure, and GCP, I bring a wealth of expertise in automation, CI/CD, Kubernetes, and Docker. Adept at optimizing cloud infrastructure, I thrive on implementing DevOps best practices to enhance system reliability and efficiency.

### **\*\*Key Skills:\*\***

- AWS, Azure, GCP
- Automation & CI/CD
- Kubernetes & Docker
- Cloud Network Architecture
- Terraform & Ansible
- Infrastructure Optimization
- Monitoring Tools (Prometheus, Grafana, Splunk, Nagios)
- Python Scripting

### **\*\*Professional Achievements:\*\***

- Led initiatives at Cat Financial, playing a pivotal role in managing Azure Container Registry and implementing Azure Monitor for performance tracking and security.
- Spearheaded AWS cloud optimization at the State of Indiana, implementing CI/CD pipelines, migration plans, and Kubernetes infrastructure orchestration.
- Enhanced cloud reliability at Texas Capital Bank, automating Azure cloud system creation, integrating SRE principles, and utilizing AppDynamics for app monitoring.

### **\*\*Expertise Highlights:\*\***

- Infrastructure Automation: Utilizing Terraform and Ansible for streamlined and efficient infrastructure provisioning.
- Container Orchestration: Hands-on experience with Kubernetes, Docker, and managing Azure Kubernetes Service (AKS).
- Monitoring and Logging: Configuring and optimizing monitoring tools like Prometheus, Grafana, Splunk, Nagios for real-time insights.
- CI/CD Pipelines: Implementing end-to-end CI/CD pipelines using tools like Jenkins, GitLab, and Azure DevOps.
- Cloud Services Mastery: Expertise in AWS, Azure, and GCP, ensuring optimal utilization of cloud resources.

Passionate about staying at the forefront of technology trends, I am committed to driving innovation and excellence in cloud architecture and DevOps practices. Open to collaboration and new opportunities that leverage my skills in creating robust, scalable, and high-performance cloud solutions. Let's connect and explore how we can contribute to the next wave of technological advancements!

## Experience



**Sr Cloud DevOps Engineer**

Cat Financial

Jan 2023 - Present (1 year 1 month)

As a Senior Cloud DevOps Engineer at CAT Financial, I played a key role in managing Azure Container Registry for private Docker images, deploying through Azure pipelines, and implementing Azure Monitor for performance tracking and security. I configured Cloud Network Architecture, established connectivity using Azure Virtual Networks, VPN, and Express Route. Additionally, I worked on Serverless services, created CI/CD pipelines using Azure DevOps, and integrated Gitlab/Bitbucket with monitoring tools like Prometheus and Grafana.

My hands-on experience includes using Terraform and Ansible for infrastructure automation, managing Azure Container Registry, and orchestrating seamless software deployment with GitHub and Gitlab/Bitbucket CI/CD pipelines. I also contributed to creating Ansible roles, deploying Kubernetes clusters, and utilizing Azure Kubernetes Service (AKS) for container orchestration.

In optimizing OpenShift clusters and configuring monitoring tools like Nagios, Splunk, and ELK, I demonstrated effective load balancing and ensured the health of applications. I automated web data extraction using PowerShell scripts, integrated runbooks with Azure DevOps, and utilized GitHub and Bitbucket pipelines for automated build, testing, and deployment processes.

In summary, I successfully managed complex cloud infrastructure, implemented DevOps best practices, and leveraged a range of tools, including Azure, Terraform, Ansible, Docker, Kubernetes, Jenkins, Git, Splunk, Nagios, Python Scripts, Grafana, and Prometheus. My contributions resulted in efficient issue resolution, comprehensive monitoring, and optimized system performance.



## **DevSecOps Engineer**

State of Indiana

Jul 2021 - Dec 2022 (1 year 6 months)

As a DevSecOps Engineer at the State of Indiana, I led pivotal initiatives in AWS cloud optimization and DevSecOps implementation:

- Implemented AWS Route53 and Elastic Load Balancing for efficient traffic routing and system performance.
- Established CI/CD pipelines in Jenkins, employing Ansible Playbooks for continuous delivery.
- Executed migration plans with tools like Cloudscape and Zerto for workload migration to AWS.
- Configured multiple AWS instances, ELB, and Auto-scaling for cost-effective, fault-tolerant systems.
- Orchestrated Kubernetes infrastructure using Rancher, kops, and EKS for high availability.
- Integrated Prometheus with AWS services for proactive performance monitoring.
- Used Terraform for resource provisioning, integrating Grafana for real-time visualization.
- Automated cloud deployment processes with Ansible Python API and Git for version control.
- Developed Docker images, managed Docker Registry, and connected data stores with AWS Glue.
- Utilized Jira and Confluence for bug tracking and comprehensive issue dashboards.

Environment: AWS, Docker, Jenkins, Linux, RHEL, Splunk, OpenShift, GitHub, EKS, Nagios, Ruby, Python, Terraform.

## **Site Reliability Engineer**

TEXAS CAPITAL BANK, NATIONAL ASSOCIATION

May 2019 - Jun 2021 (2 years 2 months)

As a Site Reliability Engineer , I played a key role in enhancing the reliability and efficiency of cloud infrastructure, particularly in Azure. Some highlights of my contributions include:

- Developed capacity and architecture plans for the creation of Azure Cloud Environment, hosting IaaS VMs, and PaaS role instances.
- Automated Azure cloud system creation using PowerShell scripts for Resource groups, Web Applications, Azure Storage Blobs & Tables, and firewall rules.
- Configured Azure Load Balancer, Internal Load Balancer, Traffic Manager, Application Gateway, and Azure Cosmos DB.
- Led the planning and deployment of self-service password reset functionality for Azure AD, contributing to reduced IT helpdesk costs.
- Integrated Site Reliability Engineering (SRE) principles into DevOps workflows, optimizing source code control, compilation, and production release.
- Utilized AppDynamics for comprehensive app monitoring, integrating it seamlessly with Azure for real-time insights.
- Created and managed AKS (Azure Kubernetes Service) clusters, developing Manifest files and implementing monitoring with Grafana and Prometheus.
- Monitored application logs using Splunk, creating custom dashboards for efficient incident resolution.
- Implemented IAM in Azure for secure cloud access, aligning with SRE's reliability focus.
- Used Helm charts for integrating applications and developed automation using Shell scripting.
- Expertise in using ServiceNow as a ticketing tool for monitoring infrastructure alerts, warnings, and critical incidents.

Environment: Azure, Terraform, Docker, Kubernetes, Azure Pipelines, Ansible, JFrog, SonarQube, Maven, ELK, New Relic, Nagios, Dynatrace, Jenkins, Python.

## **DevOps Engineer**

### **Guild Mortgage**

Jun 2018 - Apr 2019 (11 months)

As a DevOps Engineer at Guild Mortgage, I spearheaded key initiatives to optimize AWS environments and implement streamlined CI/CD processes. Notable accomplishments include leading the migration of a Linux environment to AWS, utilizing services like EC2, ELB, S3, Glacier, Lambda, and CloudFormation. I played a crucial role in global DNS management with Amazon Route53, implemented AWS Lambda for serverless computing, and utilized GitLab CI/CD pipelines for automated code integration. Additionally, I orchestrated effective monitoring using Prometheus, integrated Grafana for dynamic dashboards, and employed Kubernetes for efficient AWS component management. My expertise includes Ansible playbook development for automation, Terraform for smooth migrations, and utilization of JIRA for change management. Overall, I contributed to enhancing system repeatability, consistency, and real-time monitoring across diverse AWS environments.

Environment: Python, AWS, Ansible, Docker, AWS CLI, Maven, Tomcat, Jenkins, New Relic, Nginx, Python Scripting.

## **Licenses & Certifications**

 **Ethical Hacking - SQL Injection Attack - Udemy**  
UC-305CY6ZF



**Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning** - Coursera  
W8V4FGL7ETNL



**Python level 1 certification** - Cambridge Certification Authority



**HTML CSS Certification** - TemplateMonster.com  
10299637



**MTA: Security Fundamentals - Certified 2020** - Microsoft



**web application security testing with OWASP ZAP** - Coursera  
THTUQY4RAPU9



**web application security testing with Burp suite** - Coursera  
BK9AHYZ6GRWP



**API Development with Swagger and OpenAPI Course** - Codecademy



**Microsoft Certified: Azure Administrator Associate** - Microsoft  
Issued Jan 2024 - Expires Jan 2025  
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## Skills

Azure DevOps Server • Azure SQL • Azure DevOps Services • Azure Data Factory • Security Certification • Architecture Reviews • Vulnerability • Anomaly Detection • Hybrid Cloud • Linux