

# SAI TEJA THANGALLAPALLI

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## PROFESSIONAL OVERVIEW

Results-driven DevOps Engineer with 4+ years of experience designing, automating, and managing scalable solutions across Azure, AWS, and GCP. Proven expertise in infrastructure automation, CI/CD pipeline implementation, container orchestration, and cloud security. Adept at driving operational efficiency, ensuring high availability, and delivering robust, fault-tolerant systems in dynamic environments.

## TECHNICAL SKILLS

- **Infrastructure as Code & CI/CD:** Terraform, CloudFormation, ARM Templates, Jenkins, Azure DevOps, Octopus, Bamboo, GitHub Actions, GitLab CI, CI/CD Pipelines, ArgoCD
- **Configuration Management & Containerization:** Ansible, Chef, Puppet, Ansible Playbooks, Docker, Kubernetes, Azure Kubernetes Service (AKS), Helm
- **Monitoring & Logging:** Prometheus, Grafana, Datadog, New Relic, Azure Monitor, CloudWatch, Elastic Stack (ELK), Fluentd
- **Scripting & Programming:** Python, Java, Bash, Shell scripting, PowerShell, SQL, C++, PySpark
- **Version Control & Collaboration:** Git, Bitbucket, GitHub Enterprise, JIRA, Confluence, Visual Studio
- **Artifact & Code Quality Management:** Nexus, Artifactory, SonarQube
- **Serverless & Microservices:** AWS Lambda, Azure Functions, API Gateway, Swagger, Postman
- **Networking & Security:** VPC, IAM, VPN Gateway, Azure AD B2C, Azure AD Connect, Azure Security Center, RBAC
- **Databases & Virtualization:** MongoDB, MySQL, VMware, Hyper-V, VirtualBox, Azure Site Recovery, AWS Backup

## CERTIFICATIONS

[Microsoft Certified: Azure Administrator – Associate \(AZ-104\)](#)   [HackerRank Python](#)   [HackerRank Software Engineer Intern](#)   [HackerRank SQL](#)   [AWS Certified Cloud Practitioner](#)

## EXPERIENCE

**DevOps Engineer** 07/2024 - Present  
Verizon Communications Irving, TX

- Reduced deployment time by **45%** by building robust CI/CD pipelines using **Azure DevOps**, incorporating quality gates, blue-green deployments, and rollback automation.
- Achieved **99.9% uptime** for critical microservices by designing scalable infrastructure on **AKS** with **Nginx Ingress**, SSL/TLS encryption, and autoscaling policies.
- Cut infrastructure provisioning time by **60%** using **Terraform**, **ARM templates**, and **Ansible** to automate Azure IaaS and networking setups.
- Lowered cloud expenditure by **20%** through implementation of lifecycle management, reserved instance optimization, and rightsizing using custom automation scripts.
- Enabled **35% faster disaster recovery** by automating backup and recovery flows using **Azure Backup Vault**, **Recovery Services**, and PowerShell scripts.
- Improved incident resolution time by **50%** via centralized observability using **Prometheus**, **Grafana**, and **Azure Monitor**, enabling proactive alerting and RCA.

**DevOps Engineer** 06/2019 - 08/2022  
NTT DATA PVT LTD Hyderabad, IN

- Improved deployment efficiency by **40%** by building CI/CD pipelines with **Jenkins**, **GitLab CI**, and **Docker**, automating builds and tests for healthcare applications.
- Saved **20%** in AWS cloud costs by implementing **EC2 rightsizing**, eliminating idle resources, and automating non-prod shutdowns using **Ansible + Jenkins**.

- Enabled real-time analytics pipelines using **AWS Lambda**, **S3**, and **Redshift**, empowering business teams with immediate insights from healthcare data.
- Ensured **HIPAA compliance** by architecting secure AWS environments using **IAM**, **NACLs**, and server hardening practices across multiple workloads.
- Streamlined database migrations using **AWS DMS**, **Snowball**, and **SMS**, ensuring **zero data loss** and minimal application downtime during lift-and-shift.

## PROJECTS

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**CI/CD Pipeline Using Jenkins.** Built a CI/CD pipeline automating the build, test, and deployment of a 3-tier application using **Jenkins**, **Docker**, **SonarQube**, and **Nexus**. Improved code quality by **20%** through SonarQube integration and automated repository uploads to Nexus for version control. Deployed the application to another server, reducing deployment effort by **70%**. [Project Link](#)

**Azure DevOps and Kubernetes Deployment with ArgoCD.** Developed a CI/CD pipeline using **Azure DevOps** to build and deploy a voting application to an AKS cluster with **ArgoCD**. Decreased deployment time by **50%** by leveraging GitOps principles, improving scalability and reliability. [Project Link](#)

**Terraform Infrastructure as Code for Azure VPN.** Automated the provisioning of an Azure Virtual Private Network (VPN) using **Terraform** and a Jenkins pipeline. Reduced manual setup time by **60%** and enhanced security by automating the entire VPN setup process. [Project Link](#)

## EDUCATION

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**Master in Information Technology**, University of Wisconsin Milwaukee, CGPA: 3.8 09/2022 – 12/2023  
**Bachelor in Electronics & Communication Engineering**, GITAM University, CGPA: 8.78 06/2016 – 07/2020