

Sai Chandu Kotturu

Senior Software Engineer | DevOps Engineer

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Place: United States | GitHub: github.com/saichandukotturu

Summary

Experienced Senior Software Engineer with 5 years of expertise in cloud infrastructure, DevOps automation, and multi cloud deployments. Delivered scalable AWS and Azure solutions by architecting Infrastructure as Code using Terraform and Ansible. Proficient in Jenkins, GitHub Actions, GitLab CI, Kubernetes (EKS/AKS), Docker, Python, and Bash scripting. Enhanced CI/CD pipelines for efficient and consistent software delivery, increasing deployment frequency by 30%. Automated container orchestration to enable zero-downtime releases. Led centralized monitoring and logging implementations with ELK Stack and Prometheus for improved system observability. Developed strong automation scripts to streamline operations. Collaborates cross-functionally to improve system reliability, automate delivery pipelines, and reduce mean time to resolution (MTTR).

Technical Skills

- **Programming & Scripting Languages:** Python, Bash
- **Databases:** SQL
- **Cloud Platforms:** AWS, Azure
- **CI/CD & Build Tools:** Jenkins, Azure DevOps, GitHub Actions, GitLab CI, Maven, Codefresh
- **Containerization & Orchestration:** Docker, Kubernetes (EKS, AKS)
- **Infrastructure as Code & Configuration Management:** Terraform, Ansible, Shell Scripting
- **Secrets & Credential Management:** AWS Secrets Manager, Azure Key Vault, Vault
- **Monitoring & Logging:** Prometheus, Grafana, ELK Stack, CloudWatch, Splunk, New Relic, BMC Control-M
- **Version Control & Issue Tracking:** Git, Jira, SonarQube, Nexus, Helm
- **Incident Management & Collaboration:** PagerDuty, ServiceNow, Slack Integration
- **Operating Systems:** Linux (RHEL, Ubuntu), Windows

Professional Experience

HCL Technologies Pvt Ltd

December 2022 – August 2023

Senior Software Engineer

Client: Australia & New Zealand Banking Group Limited

Technologies: AWS (EC2, S3, RDS, IAM, CloudFormation, CloudWatch, DMS), Azure (Blob Storage, Data Factory, DevOps, Key Vault, Application Insights), Terraform, Ansible, Jenkins, GitHub Actions, GitLab CI, Docker, Kubernetes (EKS/AKS), ELK Stack, Prometheus, Grafana, SonarQube, Trivy, Python, Bash, Maven, Jira, Confluence, ServiceNow, OPA, Slack, PagerDuty

- Engineered and deployed scalable AWS infrastructure using Terraform, improving provisioning speed and standardizing reusable infrastructure across multi-cloud environments.
- Optimized CI/CD pipelines with Jenkins and GitHub Actions, driving a 30% increase in deployment frequency and reducing release errors through automation and integration of quality gates.
- Automated environment orchestration via Ansible and Kubernetes (EKS/AKS), enabling seamless containerized application deployment with zero downtime through blue-green and canary strategies.
- Spearheaded centralized logging and monitoring frameworks using ELK Stack, Prometheus, and Grafana, improving system observability and cutting incident response times by 35%.
- Architected and executed cloud migration of legacy databases (PostgreSQL, Oracle) leveraging AWS DMS and Azure Data Factory, ensuring data integrity during cutovers.
- Led cost optimization initiatives by auditing cloud resources and rightsizing deployments, reducing cloud spend while maintaining performance.
- Established strong automation scripts and internal CLI tools in Python and Bash, eliminating manual interventions, and achieving a 25% boost in operational efficiency across DevOps workflows.

HCL Technologies Pvt Ltd

July 2019 – November 2022

Software Engineer

Technologies: Jenkins, GitLab, Azure DevOps, AWS CloudFormation, Azure Kubernetes Service (AKS), Ansible, Puppet, Dynatrace, Prometheus, Splunk, Python, Bash, Groovy, ServiceNow, Jira, Microsoft Azure, Infrastructure as Code (IaC), CI/CD, Cloud Migration, Network Security

- Executed end-to-end CI/CD pipeline automation using Jenkins, GitLab, and Azure DevOps, enhancing software delivery speed and ensuring seamless integration across development stages.
- Constructed cloud infrastructure using AWS CloudFormation, Azure Kubernetes Service (AKS), and Infrastructure as Code tools such as Ansible and Puppet, ensuring improved scalability and reduced provisioning effort by 40%.
- Monitored production systems leveraging Dynatrace, Prometheus, and Splunk, optimizing system uptime and achieving consistent SLA compliance while decreasing incident resolution time.
- Conducted seamless cloud migrations and application rollouts on Azure environments, which led to a 20% reduction in infrastructure-related expenses and improved deployment reliability.
- Programmed custom automation scripts using Python, Bash, and Groovy to handle routine server patching, restart services, and manage monitoring alerts, resulting in streamlined processes and a 50% reduction in manual efforts.

- Coordinated with teams through ServiceNow and Jira to drive change control, incident response, and network security improvements, minimizing downtime and enhancing service quality.

HCL Technologies Pvt Ltd

August 2018 – June 2019

Intern

Technologies: Jenkins, GitHub, AWS, Terraform, Ansible, Shell, Python, Linux, Windows, CloudWatch, Grafana, Splunk, Dynatrace, New Relic, Control-M, Git, Jira, TechConnect, SQL, Software Center, IIS, ITSM

- Streamlined CI/CD pipelines by configuring Jenkins and GitHub workflows, enhancing deployment automation and improving overall code delivery processes.
- Automated infrastructure provisioning for development and testing environments on AWS using Terraform and Ansible, reducing manual setup time by 30%.
- Debugged and optimized Shell and Python automation scripts for critical operational tasks such as log rotation and backups, improving system reliability.
- Administered Linux and Windows servers, performing patch management on 150+ servers monthly and maintaining compliance across 200+ production/non-production systems.
- Assessed application and server health using AWS CloudWatch, Grafana, Splunk, and Dynatrace, identified and reported performance anomalies, minimizing downtime.
- Collaborated with cross-functional teams using Jira for sprint planning and incident resolution, managing work requests via TechConnect and improving ticket closure rate by 20%.

Education

Master of Science in Computer Science

August 2023 – May 2025

Southeast Missouri State University, Cape Girardeau, Missouri, USA

Bachelor of Engineering in Electronics and Communication Engineering

June 2015 – May 2019

QIS College of Engineering and Technology, Andhra Pradesh, India

Certifications

- [Attained AWS Certified Cloud Practitioner \(Foundational\) Certification.](#)
- [Achieved AWS Certified SysOps Administrator Certification.](#)