

SATHWIKA KARRE

DevOps Engineer | AWS Certified Solutions Architect

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SUMMARY

AWS Certified DevOps Engineer with nearly 3 years of experience designing and automating CI/CD pipelines, managing cloud-native deployments, and orchestrating containers with Docker and Kubernetes. Proven track record of improving deployment speed and reliability across agile teams using tools like Jenkins, ArgoCD, and Terraform. Skilled in optimizing AWS infrastructure and implementing GitOps workflows to streamline delivery. Passionate about innovation and currently exploring AI-driven automation in DevOps.

TECHNICAL SKILLS

Cloud Technologies	AWS
CI/CD	Jenkins, GitHub Actions and Argo CD
Container Technologies	Docker, Kubernetes
Scripting	Shell and Python
Version Control System	Git, GitHub
Configuration Management	Ansible
Infrastructure as Code	Terraform
Build Tools and Code Quality	Maven, SonarQube

PROFESSIONAL EXPERIENCE

Tech Mahindra

Associate Software Engineer

Hyderabad, India

Jan 2023 – Present

- Optimized CI/CD pipelines for Java microservices, reducing build and deployment times by 20% using Jenkins and Maven.
- Implemented Git best practices, leading to a 30% reduction in merge conflicts and higher deployment success rates.
- Automated Docker image creation and updates, eliminating 80% of manual steps and boosting deployment efficiency by 50%.
- Containerized microservices for 3 development teams, reducing onboarding time by 40%.
- Led Kubernetes adoption using ArgoCD and GitOps, doubling deployment speed and improving cost efficiency by 20%.

- Managed Kubernetes deployments with ArgoCD, enabling zero-downtime releases and cutting rollback time by 60%.
- Streamlined API traffic using Kubernetes Ingress, reducing network latency and improving response times by 25%.
- Automated Kubernetes configuration updates using Ansible, reducing manual effort by 40%.
- Automated infrastructure provisioning using Terraform, cutting manual efforts by 60% and ensuring - 99.9% uptime.
- Set up Terraform remote backend and state locking with S3 and DynamoDB, eliminating misconfigurations.
- Troubleshooted complex AWS VPC issues, improving network reliability by 35% and reducing downtime incidents.
- Configured ArgoCD sync policies to automate deployments and reduce rollback failures by 50%.
- Resolved CI/CD issues, reducing failed builds by 40% and streamlining workflows.
- Gained exposure to Prometheus and Grafana, reduced incident response time by 20%.
- Conducted knowledge-sharing sessions on CI/CD automation, increasing adoption by 60% and cutting junior engineer ramp-up time by 50%.
- Worked with team to fix critical production issues, maintaining 99.95% availability.
- Developed reusable Shell scripts for log analysis and routine maintenance tasks, reducing operational effort by 40%.

EDUCATION

BACHELOR OF TECHNOLOGY (B-TECH) - Electronics and Communication Engineering

J.B Institute of Engineering and Technology, Hyderabad

July 2018 – June 2022 | CGPA: 9.15 / 10

CERTIFICATIONS

AWS Certified Solutions Architect - Associate (SAA-C03)

Issued by Amazon Web Services - [Apr 2025]

AWARDS & ACHIEVEMENTS

- **Pat on the Back Award** - Tech Mahindra Mar 2025
Honored for consistent dedication, cross-team collaboration, and proactive contributions to DevOps initiatives.
- **Bravo Award** - Tech Mahindra Mar 2024
Recognized for driving automation improvements and ensuring high availability in production environments.
- **Top Performance Rating – 'X'** - Tech Mahindra Jan 2023 - Dec 2024
Recognized with the highest rating ('X') for consistently optimizing deployment pipelines and minimizing incidents, while maintaining strong year-over-year performance.
- **Gold Medalist in B-Tech** - J.B Institute of Engineering and Technology Sep 2022
Graduated as the top ranker in the class with a CGPA of **9.15**, recognized for academic excellence, problem-solving ability, and strong technical aptitude.