

SURESH KUMAR UPPADA

Senior DevOps Engineer | CI/CD Platform Engineer | Cloud & Kubernetes Automation
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PROFESSIONAL SUMMARY

Senior DevOps and CI/CD Platform Engineer with 10+ years of experience building enterprise CI/CD, cloud, and Kubernetes platforms. Hands-on background across AWS, EKS, Jenkins, GitHub Actions, GitLab, GitOps, Terraform, CloudFormation, Helm, Flux CD, Nexus/Artifactory, SonarQube, CodeQL, Ansible, Python, Bash scripting, PowerShell scripting, and observability tooling. Experienced in reusable pipeline frameworks, release automation, platform reliability, developer self-service, incident response, RCA, and production support for regulated enterprise environments.

CORE CAPABILITIES

- CI/CD platform engineering, reusable pipeline design, release automation, and deployment standardization.
- AWS and Kubernetes platform operations, GitOps delivery, infrastructure automation, and production reliability.
- Developer enablement, self-service automation, incident response, root cause analysis, and operational runbooks.

SELECTED IMPACT HIGHLIGHTS

- Reduced release effort by 30% by standardizing reusable GitHub Actions workflows for Maven builds, GHCR image publishing, Nexus artifact promotion, Helm releases, and Flux CD deployment validation.
- Standardized CI/CD and GitOps delivery patterns across AWS EKS environments.
- Integrated GitHub Actions, Helm, Flux CD, GHCR, Nexus, SonarQube, CodeQL, and Kubernetes workflows.
- Resolved CI/CD, Kubernetes, Helm, ingress, DNS, TLS, runner, artifact repository, and deployment issues.

ENGINEERING AUTOMATION & PLATFORM INNOVATION

- Applied AI-assisted engineering practices for troubleshooting, documentation, pipeline analysis, and runbook creation.
- Built a cloud-native DevOps/Kubernetes portfolio showcasing GitOps, CI/CD automation, observability, and IaC patterns.

PROFESSIONAL EXPERIENCE

National Science Foundation | Alexandria, VA

Aug 2021 - Present

Senior DevOps Engineer / CI/CD Platform Engineer

- Built CI/CD, Terraform, and GitOps automation for AWS EKS using GitHub Actions, Helm, Flux CD, Docker, GHCR, and Nexus.
- Standardized Maven release workflows for container publishing, artifact promotion, quality gates, and Helm releases.
- Supported AWS EKS services across EC2, VPC, ALB, IAM, Route 53, ingress, TLS, DNS, and service accounts.
- Automated repository migration, deployment validation, diagnostics, and AppDynamics checks using Python, Bash, Ansible, and GitHub CLI.
- Resolved Tier-3 CI/CD, Kubernetes, Helm, Nexus, runner, ingress, DNS, certificate, and deployment issues.

AgFirst Farm Credit Bank | Columbia, SC

Sep 2020 - Aug 2021

Senior DevOps Engineer

- Designed CI/CD pipelines using Azure DevOps, Jenkins, GitHub Actions, and GitOps practices for Azure and AKS.
- Built reusable Terraform modules for AKS, Azure Functions, App Services, governance controls, and cost optimization.
- Integrated SonarQube quality gates, security scanning, artifact repositories, and deployment controls.
- Automated server provisioning, build-agent setup, onboarding tasks, and incident analysis using Ansible and Python.

LPL Financial | Fort Mill, SC

Jan 2020 - Aug 2020

DevOps Engineer

- Built Docker images for Angular and Java applications and published artifacts to Nexus and AWS ECR.
- Supported AWS EKS workloads across development and production using Terraform-based AWS provisioning.
- Implemented CI pipelines using TeamCity and Octopus Deploy for build, release, and deployment automation.

Charter Communications | Denver, CO

May 2019 - Jan 2020

DevOps Engineer

- Implemented CI/CD pipelines using GitLab, Jenkins, Ansible, Terraform, CloudFormation, and AWS services.
- Managed Docker and Kubernetes microservice deployments through Jenkins pipelines and NGINX ingress.
- Automated monitoring, infrastructure validation, and troubleshooting using AWS CloudWatch and ELB metrics.

LPL Financial | Fort Mill, SC

Sep 2018 - Apr 2019

DevOps Engineer

- Implemented CI/CD workflows using Jenkins, TeamCity, and Octopus Deploy for release automation.
- Automated application deployments with PowerShell scripting and maintained Docker registries through Nexus repositories.

Wells Fargo | Charlotte, NC

Oct 2017 - Sep 2018

DevOps / AppDynamics Engineer

- Configured AppDynamics Controller, EUM, event services, custom dashboards, and Java/.NET monitoring.
- Automated build and deployment activities using Jenkins, Git, PowerShell scripting, EC2, Lambda, and Jira.

Nielsen | Oldsmar, FL

Nov 2016 - Sep 2017

AWS Cloud DevOps Engineer

- Led CI/CD implementation using AWS CodeCommit, CodeBuild, CodeDeploy, CodePipeline, Jenkins, Git, and Maven.
- Developed CloudFormation templates and shell scripts for AWS provisioning, IAM roles, and deployment setup.

Sytel | Hyderabad, India

Aug 2014 - Jun 2015

Build and Release Engineer

- Orchestrated CI/CD processes using Git triggers, Maven builds, Jenkins automation, Artifactory, Nexus, and Linux scripts.
- Managed repository creation, branching, artifact sharing, build troubleshooting, and release coordination.

TECHNOLOGY STACK

CI/CD & Release Engineering: Jenkins, GitHub Actions, GitLab CI, Azure DevOps, TeamCity, Octopus Deploy, AWS CodePipeline

Cloud & Infrastructure: AWS, EKS, EC2, VPC, ALB, IAM, Route 53, S3, RDS, Lambda, CloudWatch, Azure, AKS

Kubernetes & GitOps: Kubernetes, EKS, AKS, Helm, Flux CD, Docker, ingress, TLS, service accounts

Artifacts & Code Quality: Nexus, Artifactory, GHCR, ECR, Maven, MSBuild, SonarQube, CodeQL

Automation & Operations: Python, Bash scripting, PowerShell scripting, GitHub CLI, Ansible, Linux, Prometheus, Grafana, AppDynamics, Splunk

EDUCATION

Master of Science in Information Technology - Campbellsville University, Louisville, Kentucky

Bachelor of Technology in Electrical and Electronics Engineering - JNTU, Hyderabad, India

CERTIFICATIONS

- AWS Certified Solutions Architect - Professional
- CKA: Certified Kubernetes Administrator
- Microsoft Certified: Azure Administrator Associate