

# Ankit Kumar Singh

## Senior DevOps Engineer

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### SUMMARY

- 8+ years of IT experience as a Cloud DevOps Engineer/Platform Engineer.
- Proficient in utilizing the DevOps Tool-chain, managing the Application Lifecycle, and implementing Agile Methodologies.
- Skilled with multiple Cloud Platforms(AWS, Azure) and Linux distributions.
- Experienced with implementing microservices architecture with Docker and Kubernetes(Amazon EKS).
- Proficient in implementing secure multi-stage CICD workflow using various CICD Tools.
- Experience automating Infrastructure provisioning using Terraform and Terragrunt.

### SKILLS

Container Orchestration	Automation/CICD Tools	Infrastructure as Code
Docker, Kubernetes, EKS, ECS	Gitlab CI, Jenkins, Bamboo, ArgoCD, Nexus, Artifactory, SonarQube, Trivy, Qualys	Terraform, Terragrunt, OpenTofu
Cloud Providers	Version Control	Scripting
AWS, Azure	Git, Gitlab, Github, Bitbucket	Bash, Python, Groovy, Javascript
Monitoring	Testing	Database
Prometheus, Grafana, Cloudwatch, Fluentbit, Zabbix	Selenium, Jmeter	MySQL, PostgreSQL, RDS, MongoDB
CMS	Web Server	Issue Tracking/Documentation
AEM, Wordpress, Netlify, Hippo	Apache Httpd, Nginx, Tomcat	Jira, ServiceNow, Confluence, Box

### CERTIFICATIONS

HashiCorp Certified: Terraform Associate	05/2023 - 05/2025
AWS Certified Solutions Architect Associate	10/2022 - 10/2025

### EXPERIENCE

<b>INFRA DEV SPECIALIST</b> Cognizant Technology Solutions	05/2021 - Present
<ul style="list-style-type: none"><li>• Multi-environment Provisioning of AWS Resources (VPC, EKS, RDS, Redis, etc.) with Terraform and Terragrunt in an Air-gapped setting.</li><li>• Management of Kubernetes Addons (AWS LBC, Metrics server, Karpenter, Istio, Fluentbit, ESO, etc) and Deployment of Application Microservice manifests using ArgoCD.</li><li>• Migrated 290+ Application Repos from SaaS Gitlab to Client's Self-hosted Gitlab using automation scripts and implemented a Templated CI Workflow to Scan, Build and Push Java Based Docker Applications to ECR and Gitlab Registry. This singular CI Template supports 5 different application build patterns with build time Variables.</li><li>• Delivered an automated Continuous Integration, Continuous Delivery "Pipeline as Code" with Gitlab CI capable of deploying 50+ microservices to EKS and Lambda using Build once and deploy anywhere" strategy for another Client.</li><li>• Implemented Sonar and SAST scanning on SonarQube with Custom Quality Gates, Dependency check scan for 3rd party library scans &amp; Container Scanning.</li><li>• Integrated JMeter Regression Test Suite with CICD Pipeline to adopt Shift-Left Approach providing reduced defects number, execution time, execution cost.</li><li>• Built a CICD Dashboard (Internal Developer Platform) using Gitlab API and JavaScript to run all Gitlab Pipelines with Dynamically generated dropdown and reduce manual inputs.</li><li>• Provided a cost optimization Strategy for the optimal use of AWS EKS giving customer ~60-65% hard dollar savings per year.</li></ul>	

## ASSOCIATE INFRASTRUCTURE L2 (DEVOPS ENGINEER)

10/2019 - 05/2021

Publicis Re:Sources

- Infrastructure procurement and maintenance of 58 Main Domains & 250 Vanity Domains.
- Creation of CI/CD jobs using Bamboo along with integrations of test automation such as SonarQube/Selenium.
- Setup and configuration of Apache Virtual hosts and Redirections for more than 300 Domains.
- Web applications setup on AWS using core services, server maintenance, Capacity Upgrades and BAU tasks.
- Automation of BAU tasks on Bamboo and Lambda such as Weekly/Monthly Snapshot backups, Multi-levels Cache flush, Content Reverse Sync, Selenium Reports Dashboard, Solr Collection Update, etc.
- Maintenance of Legacy websites on Wordpress & Hippo.

## SYSTEM ENGINEER (DEVOPS ENGINEER)

06/2016 - 10/2019

Tata Consultancy Services

- Jenkins CI/CD pipeline creation for deployment using Gitlab for Source Code management.
- Zero Downtime Deployments with the help Load Balancer and Traffic Manager in Azure.
- Setting up Infrastructure for the application on Linux based machines.
- Setting up Self-healing of services on linux based machines.
- Installation and configuration of different services such as Apache httpd, AEM(Adobe Experience Manager), Solr Search, MongoDB, etc.
- Siteminder Authentication in AEM with LDAP configuration for user sync.
- Multi-host Application Gateway setup in MS Azure for Web and Mobile Application
- Website performance Optimization using CDN, Expiry Headers, Content Caching, etc.
- Website and server security/vulnerabilities fixes.
- User Access Management and Reconciliation for the whole team.

## EDUCATION

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Automobile Engineering

2012 - 2016

SRM University, Chennai, Tamil Nadu - B.Tech