

# Abhishek Kulkarni

## DevOps Engineer

Email: [kulkarniabhishek159@gmail.com](mailto:kulkarniabhishek159@gmail.com)

Phone: +91 7756806941

LinkedIn: <https://www.linkedin.com/in/abhishek-kulkarni-devops/>

---

### Passionate DevOps Engineer with 5 Years of Experience | Certified Kubernetes Administrator

Seeking a DevOps Engineer role to optimize cloud resource utilization, automate workflows, and accelerate delivery times for enhanced operational efficiency.

#### KEY SKILLS

---

- **Programming Languages:** Python, Core Java, Shell & Batch Scripting
- **Version Control Systems:** Git, SVN
- **Cloud Environments:** AWS
- **CI/CD Tools:** Jenkins, AWS CodePipeline
- **Static Code Analysis:** SonarQube, Coverity
- **Configuration & Automation Tools:** Ansible, Terraform, Ant, Gradle, Maven
- **Monitoring & Logging Tools:** Prometheus, Grafana, AWS CloudWatch
- **Containerization & Orchestration:** Docker, ECS, EKS, Kubernetes
- **Security & Compliance Tools:** BlackDuck
- **Artifact Management:** JFrog Artifactory, S3 Bucket

#### WORK EXPERIENCE

---

##### Veritas Technologies (Now part of Cohesity), Pune — Software Engineer III - DevOps

Jan 2023 – PRESENT

- Initiated production-grade automated build pipelines and enhanced existing manual build processes for core Veritas products (NetBackup, ITA), improving build efficiency by 30%.
- Leveraged Python for build automation and developed Dockerized builds for Spring Boot applications, reducing build times by 30% and increasing deployment success rates by 25% across 50+ application builds.
- Integrated cloud services with Jenkins build pipeline, enabling a 20% reduction in deployment time. Generated AWS cloud infrastructure using Terraform and configured it with Ansible, streamlining resource management and achieving **99.9% infrastructure uptime**. Systematized dynamic infrastructure provisioning and resource clean-up through CI pipelines, reducing manual intervention by **40%**, and set up new VMs with required compilers and tools to optimize the build process.
- Enforced best security practices, ensured compliance with industry standards and regulations Set up and upgraded Coverity analyzer on build machines, reducing code defects by **30%**. Integrated Jacoco to collect coverage metrics, increasing code coverage by **15%**, and applied Black Duck scanning for ITA products, identifying and mitigating over **500 open-source risks and vulnerabilities** within a year.
- Set up Kubernetes infrastructure on-premises (using kubeadm) and in the cloud (AKS) using Ansible and Terraform, improving cluster deployment efficiency by **25%**. Deployed VMware vCenter, ESXi, and VRP (Veritas Resiliency Platform) product appliances, and set up Kubernetes clusters to test Alta and Alta View deployment scenarios, achieving **consistent 100% test coverage** for deployment use cases.

##### Ness Technologies, Pune — Software Engineer - DevOps

Mar 2022 – Jan 2023

- Created Jenkins-based CI/CD frameworks for Java applications, reducing deployment time by 30% and enabling seamless Continuous Integration, Continuous Deployment, and Continuous Testing across environments.
- Delivered shell script utilities that mechanized end-to-end processes, reducing manual intervention by 50% and minimizing operational errors.

- Developed 20+ Ansible playbooks for tasks such as Oracle DB exports and Kubernetes deployments, improving efficiency and reducing deployment time by 40%. Built an end-to-end workflow to create EKS clusters using Terraform and configured them with Ansible, streamlining deployments and achieving 99.9% cluster uptime.
- Designed and implemented monitoring and alerting solutions using Prometheus and Grafana, reducing system downtime by 25% and ensuring prompt issue resolution within SLA timelines.

## Tata Consultancy Services, Pune — System Engineer — DevOps and Java Developer

Feb 2020 – Feb 2022

- Developed 10+ REST APIs using Spring Boot in a microservices architecture, adhering to agile methodologies, and reducing development cycle time by 20%.
- Migrated a COBOL-based Western Union monolith application to a Java Spring Boot microservices model, leveraging advanced Java 8 features. Successfully migrated a 500,000+ record PostgreSQL database and deployed microservices on AWS, improving application scalability by 30% and performance by 25%.
- Enhanced test coverage by 20% through the implementation of JUnit and Mockito tests, tracked via Eclemma and JaCoCo. Improved code quality by reducing code smells by 40% using SonarQube. Integrated Jenkins CI/CD pipelines to automate builds and testing, enforcing an 80%+ test case pass rate and achieving a 95% successful deployment rate.
- Resolved 100+ application issues in the AWS cloud environment by analyzing AWS CloudWatch logs, ensuring 99.9% application uptime and reducing mean time to resolution (MTTR) by 25%.

## EDUCATION

---

### ➤ Kolhapur Institute of Technology — B.E.

July 2015 – May 2019

Mechanical Engineering

## PROJECTS

---

- **Project: AWS Infrastructure Setup with Public/Private Subnets, VPC, Load Balancer, Bastion Server, and Auto Scaling**  
**Description:** Designed and implemented a scalable AWS infrastructure using Virtual Private Cloud (VPC), segregating resources into public and private subnets. Deployed an Elastic Load Balancer (ELB) to distribute traffic across **10+ EC2 instances**, achieving **99.9% availability**. Configured a Bastion server to secure private subnet access, reducing unauthorized access attempts by **100%**. Leveraged Auto Scaling Groups to dynamically scale instances, optimizing performance and reducing costs by **30%** during peak traffic periods.  
**Key Technologies:** AWS VPC, EC2, Auto Scaling, Elastic Load Balancer, Bastion Host, Security Groups, IAM, CloudWatch
- **Project: Streamlined CI/CD Pipeline on AWS**  
**Description:** Built a CI/CD pipeline from scratch using AWS services and GitHub, reducing deployment time by **40%** and minimizing manual errors. Automated the build, test, and deployment processes using AWS CodeBuild, CodePipeline, and CodeDeploy, ensuring a **90% reduction in build failures**. Utilized AWS CloudFormation for infrastructure provisioning, enabling repeatable and consistent deployments.  
**Key Technologies:** AWS CodeBuild, CodePipeline, CodeDeploy, GitHub, AWS CloudFormation, EC2, IAM, SNS, CloudWatch
- **Project: Jenkins-Based Pipeline for ITA Deployment on On-Prem Kubernetes**  
**Description:** Developed a secure Jenkins CI/CD pipeline for IT Analytics (ITA) deployment on an on-prem Kubernetes environment, integrating DevSecOps practices. Automated deployment tasks using Ansible playbooks, reducing deployment time by **50%** and enhancing security posture by integrating pre-deployment

security scans.

**Key Technologies:** Jenkins, Ansible, Kubernetes, DevSecOps practices

- **Project: AWS Cloud Cost Optimization**

**Description:** Delivered a cost optimization solution for AWS infrastructure by automating the detection and management of underutilized or idle resources. Implemented Shell scripts and AWS CLI workflows for monitoring and reporting, leading to **25% monthly cost savings**. Leveraged AWS Lambda and Cron Jobs for real-time alerts and optimization actions, achieving a **30% reduction in unnecessary resource usage**.

**Key Technologies:** Shell scripting, AWS CLI, CloudWatch, Cron Jobs, AWS Lambda

## ACHIEVEMENTS

---

- **Certified Kubernetes Administrator (CKA-2024)**
- **WOW award for developing CI/CD pipeline for deploying ITA (IT Analytics) on an on-prem Kubernetes environment using Ansible playbook.**