

ABHISHEK KULKARNI

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Education

Kolhapur Institute of Technology

Bachelor of Mechanical Engineering

July 2015 – May 2019

Kolhapur, Maharashtra

Relevant Coursework

- CI/CD Pipelines
- Shell/Python Scripting
- Kubernetes
- Security and Compliance
- Containerization
- Agile methodology
- AWS Cloud Services
- Infrastructure as code
- Cloud Configuration

Work Experience

Veritas Technologies (Now part of Cohesity)

Jan. 2023 – Present

Software Engineer III - DevOps

Pune, Maharashtra

- Initiated production-grade automated build pipelines and eliminated 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

Mar. 2022 – Jan. 2023

Software Engineer - DevOps

Pune, Maharashtra

- 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

Feb. 2020 – Feb. 2022

System Engineer – DevOps and Java Developer

Pune, Maharashtra

- 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%.
- Improved test coverage by 20% through the implementation of JUnit and Mockito tests, tracked via Eclemma and JaCoCo. Maintained 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%.

Projects

AWS Scalable Infrastructure Setup | *AWS VPC, EC2, Auto Scaling, ELB, NACL, Security Groups*

- Designed AWS infrastructure using VPC with public and private subnets for resource segregation.
- Deployed Elastic Load Balancer (ELB) to ensure high availability and fault tolerance.
- Configured a Bastion server for secure access to private subnets, improving security.
- Implemented Auto Scaling Groups to dynamically scale EC2 instances, optimizing cost and performance.

Streamlined CI/CD Pipeline on AWS | *AWS CodeBuild, CodePipeline, CodeDeploy, CloudFormation, SNS, CloudWatch*

- Built a CI/CD pipeline using AWS services and GitHub, reducing deployment time by 40%.
- Automated build, test, and deployment processes with AWS CodeBuild, CodePipeline, and CodeDeploy, achieving a 90% reduction in build failures.
- Leveraged AWS CloudFormation for infrastructure provisioning, enabling repeatable and consistent deployments.

Jenkins Pipeline for On-Prem Kubernetes Deployment | *Jenkins, Ansible, Kubernetes, DevSecOps practices*

- Designed a secure Jenkins CI/CD pipeline for IT Analytics (ITA) deployment on on-prem Kubernetes.
- Integrated DevSecOps practices, automating deployment tasks with Ansible playbooks.
- Reduced deployment time by 50% and enhanced security by integrating pre-deployment security scans.

AWS Cloud Cost Optimization | *Shell scripting, AWS CLI, CloudWatch, Cron Jobs, AWS Lambda*

- Delivered cost optimization solution for AWS infrastructure by automating detection of underutilized resources.
- Implemented Shell scripts and AWS CLI workflows for monitoring, reporting, and achieving 25% monthly cost savings.
- Used AWS Lambda and Cron Jobs for real-time alerts, reducing unnecessary resource usage by 30%.

Technical Skills

Languages: Python, Java, Shell and Batch scripting

Developer Tools: VS Code, Eclipse, AWS, Gradle, Maven

Technologies/Frameworks: Linux, Jenkins, Ansible, Docker, Kubernetes, Terraform, AWS, Git

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.