Udit Mishra

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Skills

- Bash/Shell Scripting, Python, AWS, CI/CD, Docker, Kubernetes, Jenkins, ArgoCD, Terraform, Git, Helm, Bitbucket, Linux/Unix, prometheus, Grafana, Nexus, Artifactory, Ansible, GitHub, Microservices

Experience

DevOps Lead   Aug 2024 - Present
Wipro Ltd.
Virtual Transport Assurance (Client: Fujitsu Network Communication)

- Led enterprise-wide CI/CD migration from Nexus to Artifactory across 65+ microservices with multi-branch pipelines, redesigning automation infrastructure and integrating new artifact management APIs. Validated changes through comprehensive testing of daily and sprint packaging workflows, delivering improved security, automated storage management, and enhanced system reliability.
- Managed CI/CD pipelines for 65+ microservices using Jenkins, Kubernetes, Ansible, Docker, and Groovy, engineering optimized build workflows that reduced build time by 60% per repository.
- Implemented YAML and JSON schema validation for Helm templates, reducing production misconfiguration by 90% and enabling early error detection.
- Automated SSL certificate processing (merging, renaming, packaging), cutting manual effort by 80% and eliminating deployment errors.
- Developed Jenkins shared library features, accelerating new pipeline onboarding by 90% and standardizing deployment.
- Authored internal documentation and self-help guides, improving developer self-service and reducing support dependency by 70%.
- Enhanced SonarQube integration for static code analysis and compliance across all microservices.
- [Key Skills: Jenkins, Kubernetes, Ansible, Docker, Groovy, Python, Shell, Bitbucket, Maven, CI/CD, Helm, YAML, DevOps Automation]

Sr. DevOps Engineer   Mar 2022 - Aug 2024
Wipro Ltd.
Network Packet Broker Controller (Client: AT&T)

- Developed 20+ automation tools/scripts, owning all DevOps and automation activities for the project.
- Led a 3-member team to build an Ansible-based batch upgrade tool, reducing upgrade time from 10 minutes to under 2 minutes.
- Led a 4-member team to develop an Ansible-based batch installation tool for containerizing session managers across 60+ VMs, saving 7 hours of manual labor.
- Built a Python-based event watcher for Docker container state changes, enabling proactive alerting and lifecycle management.
- Automated log collection and code dump analysis, reducing log collection time from 30 minutes to 3 minutes (90% reduction).
- Implemented custom syslog rotation automation, reducing manual cleanup effort by 70% and improving storage reliability.
- Automated installation workflow, cutting installation time from 40 minutes to 5 minutes.
- [Key Skills: Ansible, Jenkins, Python, Docker, Shell, Linux, Automation, CI/CD, Infrastructure Automation]

DevOps Engineer   Jan 2019 - Feb 2022
Wipro Ltd.
Jedi Jolt Firmware Build & Test Factory (Client: HP)

- Designed and maintained scalable, reliable application architecture using Git, MSBuild, Jenkins, Ansible, Docker, and Kubernetes.
- Managed release processes including branching, merging, and automated builds via Git and MSBuild.
- Developed Jenkins scripts for server health monitoring, self-healing, and email alerts using Groovy.

- Automated infrastructure provisioning with Ansible playbooks and custom Docker images to enable continuous delivery.
- [Key Skills: Git, MSBuild, Jenkins, Ansible, Docker, Kubernetes, Groovy, CI/CD, Infrastructure as Code]

Devops Engineer   Jul 2017 - Jan 2019
Ust Global
System Tools Builds & Release (Client: Intel Technologies)
- Assisted developers with Git branching strategies and SCM desktop configuration.
- Configured Jenkins for CI/CD, automating build and deployment pipelines for JAR, WAR, and EAR files.
- Set up build environments, managed releases, and handled deployments on Apache web servers.
- [Key Skills: Git, Jenkins, Apache, Maven, Bash, CI/CD, Release Management]

Product Development Engineer   Jul 2015 - Jul 2017
Ust Global
BIOS Dev and Debugging (Client: Intel Technologies)
Worked on low-level firmware validation and early platform bring-up for Intel's server platforms.

Associate Software Engineer   Aug 2014 - Jul 2015
Accenture
Online Back-end and Migration of C++ to Java Code (Client: Telenor, Norway)

Graduate Intern   Oct 2013 - Jul 2014
Intel Technologies
Automation of Quality BIOS Validation for the next generation server CPU

Projects

Three-Tier DevSecOps Todo Application (Independent Production-Grade Project)
🔗 https://github.com/uditmishra03/End-to-End-Kubernetes-Three-Tier-DevSecOps-Project
- Architected a production-grade three-tier web application on AWS EKS with fully automated CI/CD pipeline using Jenkins and GitOps-driven ArgoCD deployments, enabling zero-downtime releases with automated image updates.
- Implemented comprehensive DevSecOps practices with multi-stage security scanning (SonarQube, Trivy), automated container builds to ECR, and managed AWS infrastructure as code using Terraform for consistent environment provisioning.
- Configured Kubernetes deployments with ALB ingress, automated health checks, real-time monitoring using Prometheus and Grafana, reducing deployment time from hours to minutes.
- [Public Link: GitHub]
- [Key Skills: AWS EKS, Kubernetes, Jenkins, ArgoCD, Docker, GitOps, DevSecOps, SonarQube, Trivy, Node.js, React, MongoDB, Prometheus, Grafana, ALB, ECR]

AWS Event Announcement System (Independent Project)
🔗 https://github.com/uditmishra03/event-announcement-system
- Developed a serverless event broadcast system using AWS services to deliver real-time notifications via email.
- Built a static S3-hosted frontend for user subscriptions and implemented admin-triggered broadcasts through API Gateway and AWS Lambda.
- Integrated AWS SNS for notification delivery and leveraged IAM for secure access control and CloudWatch for monitoring.
- [Public Link: GitHub | Documentation: Notion]
- [Key Skills: AWS SNS, Lambda, API Gateway, S3, IAM, CloudWatch, HTML]

OTEL Observability Project (Independent Project)
🔗 https://github.com/uditmishra03/DevopsProjects/tree/main/Otel-observability-project
- Deployed an OpenTelemetry-based observability stack on AWS EC2 to monitor application health and performance in real time.

- Configured OpenTelemetry collector on Ubuntu EC2 to gather traces, metrics, and logs from distributed services.
- Integrated Prometheus for metric collection and set up Grafana dashboards for visualization and proactive monitoring.
- [Public Link: GitHub | Documentation: Notion]
- [Key Skills: OpenTelemetry, AWS EC2, Prometheus, Grafana, Docker, Ubuntu, YAML, Observability]

Audio Extraction App (Independent Project)

🔗 https://github.com/uditmishra03/audio-extraction-app

- Designed and deployed a microservice-based audio extraction platform on AWS EKS using Kubernetes and Helm.
- Built authentication, audio conversion, and notification services integrated via RabbitMQ and secured with role-based access.
- Managed microservices with PostgreSQL and MongoDB for data storage and processing.
- [Public Link: GitHub | Documentation: Notion]
- [Key Skills: AWS EKS, Kubernetes, Helm, RabbitMQ, Docker, Python, Microservices, PostgreSQL, MongoDB]

Argo CD Pre-Sync Hook Implementation (Independent Project)

🔗 https://github.com/uditmishra03/DevopsProjects/tree/PresyncArgo

- Built a GitOps-driven deployment enhancement using Argo CD pre-sync hooks for controlled rollouts in Kubernetes.
- Implemented pre-sync hooks to validate dependencies and initialize configs before main sync, reducing deployment errors by 60%.
- Used Helm templating to inject hook logic dynamically across environments for flexible deployments.
- [Public Link: GitHub]
- [Key Skills: Argo CD, Kubernetes, Helm, GitOps, YAML, DevOps Automation]

Achievements

1. AWS Certified DevOps Engineer - Professional
2. AWS Certified Cloud Practitioner

Education

Vellore Institute of Technology, Vellore, TN, India   2014
ME/M.Tech

Shobhit University, UP, India   2011
BE/B.Tech/Bs