

# Harshwardhan Mehrotra

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Dynamic and results-driven **DevOps Engineer** with a strong focus on automation, **Cloud Infrastructure Management, and Continuous Integration & Delivery (CI/CD) practices**. Aiming to leverage expertise in optimizing deployment processes and enhancing operational efficiency within technology-driven organizations.

## Profile Summary

- DevOps Engineer with hands-on experience in **cloud-native infrastructure, automation, and CI/CD implementations**, currently working as a **Cloud Administrator at ZS Associates**
- Adept at aligning **DevOps strategies** with organizational goals to accelerate digital transformation, reduce downtime, and streamline application delivery
- Proven ability to architect and manage **secure, scalable, and cost-efficient multi-tenant cloud environments** using tools like **EKS, ArgoCD, and Helm**
- Strong focus on **infrastructure resilience and operational excellence**, with experience creating custom automation solutions that reduce manual overhead and enhance system reliability
- Capable of driving **cross-functional collaboration** between development, operations, and security teams to ensure smooth deployments and governance compliance
- Experienced in implementing **infrastructure as code (IaC)** to ensure repeatable and auditable provisioning across cloud and hybrid environments
- Passionate about continuous learning and applying emerging technologies such as **GenAI-integrated microservices**, container security, and advanced observability tools.
- Worked extensively with the **Prometheus-Grafana-Loki stack** to enhance observability and monitoring, leading to improved developer productivity and faster issue resolution across teams.
- Maintain and manage a personal **Kubernetes-based homelab** environment, used for hands-on experimentation with emerging DevOps tools, infrastructure automation, and cloud-native technologies.

## Core Competencies

- |                                    |   |
|------------------------------------|---|
| • Cloud Infrastructure Management  | • Disaster Recovery & High Availability         |
| • Infrastructure as Code (IaC)     | • Cost Optimization & Resource Efficiency       |
| • CI/CD Pipeline Optimization      | • Access Management & Governance                |
| • Automation & Scripting           | • DevOps Consulting & Stakeholder Collaboration |
| • Containerization & Orchestration | • Monitoring & Performance Tuning               |

## Technical Skills

- **Operating Systems:** Linux, Windows Server
- **Cloud Platforms:** AWS, Google Cloud, On-Prem
- **Programming Languages:** Python, Bash, SQL
- **Frameworks:** Django, Spring Boot, Spring Framework
- **DevOps & CI/CD Tools:** Jenkins, ArgoCD, GitOps, Ansible
- **Infrastructure as Code (IaC):** Terraform, CloudFormation
- **Containerization & Orchestration:** Kubernetes, Helm, Karpenter, Docker, Docker Swarm, Amazon ECS, Amazon EKS
- **Infrastructure & Automation:** Cloud Infrastructure, Automation, CI/CD Pipelines, AWS CodeBuild, AWS CodePipeline
- **Monitoring & Logging:** Grafana, Prometheus
- **Networking & Security:** Networking, SSH
- **APIs:** REST, API Development

## Organisational Experience

### Cloud Administrator | ZS Associates | Pune | Jan 2023 – Present

- Automating infrastructure across **Windows, AWS, and containerized environments** to drive scalability and efficiency
- Designed a scalable multi-tenant EKS setup for Alterigo (50 tenants, 15 GenAI microservices) using ArgoCD and Helm. Provisioned infrastructure with Terraform, including custom modules for S3, databases, IAM roles, and VPCs, enabling one-click tenant deployment.
- Optimized EKS architecture to cut costs by 75% per tenant while ensuring high availability and performance.

- Enhancing **CI/CD pipelines** to increase deployment speed and reliability
- Developing a recovery script restoring **90% of Windows servers within 24 hours** during the **CrowdStrike BSOD** incident
- Automating **EC2 cleanup** and **image provisioning**, cutting setup time from **2.5 hours to 15 minutes** and reducing costs by **25%**
- Standardizing **Dockerfiles** for **Python, Node.js, & .NET**, reducing image size by **40%** & hardening security for **150+ apps**.
- Automating **ArgoCD access** and enforcing AD group naming standards, improving governance & productivity by **20%**
- Resolving critical issues in the **China 2016–2019 migration**, including **MFA and token accessibility**
- Building **15+ custom scripts**, including a **multi-threaded AWS token generator**, reducing manual work by **30%**
- Modernizing **Elastic Beanstalk** and **EC2 environments**, boosting scalability by **35%**
- Advising **150+ app teams** on deployment best practices, enabling seamless DevOps adoption.
- **Reducing cloud costs by 75%** per tenant through scalable, multi-tenant EKS architecture
- **Enhancing DevOps adoption across 150+ teams** by standardizing CI/CD pipelines and deployment practices

## Internship

### DevOps Intern | Peace Haven | Remote | Feb 2022 – Dec 2022

- Automating infrastructure provisioning for clients like **Trident** and **Palmolive** using **Terraform** and **Ansible**, reducing deployment time by **30%** and enhancing resource utilization
- Optimizing **CI/CD pipelines** with **Jenkins** across client applications, decreasing deployment duration by **25%** and minimizing release downtime
- Resolving DevOps-related client issues with a **95% resolution rate**, boosting system reliability for mission-critical environments
- Implementing cloud automation on **AWS** using **Bash scripting**, reducing operational overhead by **20%** and streamlining workflows
- Collaborating with cross-functional teams to align DevOps strategies with business objectives, increasing client satisfaction scores by **15%**

## Key Highlights

- **Boosted deployment efficiency** by reducing deployment time by **20%** through end-to-end pipeline automation
- **Optimized containerization** by standardizing **Dockerfiles** for **Python** and **Node.js** applications, reducing image size by **40%** and minimizing attack surface
- **Recovered critical infrastructure** by engineering a script that restored **90% of Windows servers within 24 hours** during the **CrowdStrike BSOD** incident—surpassing the industry benchmark of **27 days**
- **Improved infrastructure resilience** by optimizing deployment workflows and minimizing downtime for a service hosting **8 microservices**
- **Automated access governance** by streamlining **ArgoCD access management**, enhancing compliance and increasing team productivity by **20%**

## Projects Undertaken

- **Secure Server Manager | Aug 2021 – Jan 2022**  
Built a secure server management system to store sensitive server data, including **authentication keys** and **IP addresses**, ensuring controlled access and enhanced data protection.
- **Competitive Coding Calendar | Jan 2021 – Jul 2021**  
Developed a centralized web platform to aggregate and display **competitive coding events**, enabling users to efficiently track and manage upcoming contests across platforms.

## Academic Details

- B.Tech.- Computer Science & Engineering from MIT ADT - School of Engineering, Pune in 2023

## Personal Details

**DOB:** 29<sup>th</sup> October 2000

**Languages Known:** Hindi & English