

DIWAKAR SINGH

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OBJECTIVE

Passionate DevOps Engineer with 2 years of experience in cloud technologies, automation, and scalable infrastructure design. Committed to delivering innovative solutions through efficient CI/CD pipelines, optimized deployments, and robust cloud architectures. Dedicated to fostering team growth, promoting collaboration, and driving success in dynamic, fast-paced environments while continuously advancing technical skills and embracing innovation.

TECHNICAL SKILLS

- **CI/CD:** Jenkins, GitHub Actions
- **Operating System:** Linux
- **Version Control:** GitHub
- **Scripting:** Python, Bash
- **Code Quality Assurance:** SonarQube
- **Configuration Management:** Ansible
- **Cloud:** AWS
- **Containerization:** Docker, Kubernetes, Azure Container App
- **Database:** MySQL, PostgreSQL
- **Monitoring:** Prometheus, Grafana
- **IaC:** Terraform
- **Secrets Management:** Hashicorp Vault

EXPERIENCE

DevOps Engineer

Sharajman Technologies

03/2024 to Present

New Delhi

- Engineered a Jenkins pipeline to deploy Angular and FastAPI apps with Docker, cutting deployment time by 30% and boosting code stability by 20% through SonarQube integration. Incorporated OWASP security tests, enhancing compliance by 25%.
- Supervised the monitoring of 500+ containers using Grafana, Prometheus, cAdvisor, and Portainer, improving system performance by 40% and reducing downtime by 15%.
- Architected and deployed production-ready AWS infrastructure using Terraform, provisioning 5 database servers and 10 web servers. Enhanced deployment efficiency by 35% and ensured 99.9% uptime through optimized resource allocation and scalable, fault-tolerant architectures.
- Orchestrated development-ready Kubernetes cluster deployment with 1 master and 2 worker nodes, enabling containerized application scaling and reducing environment provisioning time by 50%.
- Analyzed 35+ government tender requirements and designed comprehensive server architectures incorporating CDN, S3 storage, load balancers, and auto-scaling Kubernetes infrastructure capable of handling 1000+ concurrent users. Implemented disaster recovery solutions with primary-secondary database configurations and optimized total infrastructure costs by 35% through strategic resource planning.

PROJECTS

Production-Grade Highly Available EKS Cluster on AWS

- Architected a **production EKS cluster (Kubernetes 1.30)** across **3 availability zones** with 3 public and 3 private subnets, managed node groups auto-scaling from **2 to 5 nodes** on demand, and hardened security via private-only API endpoint, /32 IP whitelisting, and IMDSv1 disabled on all worker nodes.
- Deployed **AWS Load Balancer Controller and Cluster Autoscaler** via Helm – enabling automated ALB provisioning, ASG tag-based node discovery, and elastic compute scaling without manual intervention.
- Implemented **GitOps delivery using ArgoCD** connected to a private GitLab repository via SSH; configured automated sync, self-healing, and pruning for a production FastAPI application running in a dedicated namespace.

- Established **full-stack observability**: CloudWatch control plane logging across 5 log types (API, audit, authenticator, controller manager, scheduler), Prometheus and Grafana for cluster metrics, and Loki stack for centralised log aggregation.
- Configured **disaster recovery using Velero** with a dedicated S3 bucket and least-privilege IAM policy covering EBS snapshot creation, volume restoration, and scoped S3 operations – ensuring full cluster backup and recovery capability.

Scalable Web App Deployment on AWS with DevOps.

- Spearheaded adoption of advanced DevOps methods for robust AWS web app deployment. Achieved 40% fewer errors and 30% higher team productivity.
- Initiated successful integration of IaC and continuous delivery principles, boosting deployment efficiency. Achieved 50% fewer errors and enhanced customer satisfaction by 30%.

DEVOPS CERTIFICATIONS

Oracle Cloud Infrastructure DevOps Professional	09/2023
DevOps Intern, LinuxWorld Informatics Pvt. Ltd.	09/2023
Oracle Certified Multi Cloud Architect Associate	09/2023
AWS Training, LinuxWorld Informatics Pvt. Ltd.	04/2022

EDUCATION

M.Tech (Cloud Computing) , BITS PILANI.	Present
B.Tech , Dr. A.P.J. Abdul Kalam Technical University. CGPA- 7.13	12/2020 to 06/2024 Agra, UP
Intermediate , Central Board of Secondary Education. Percentage- 81.6%	07/2019 to 07/2020 Etah, UP
High School , Indian Certificate of Secondary Education. Percentage- 80%	04/2017 to 05/2018 Uttarkashi, UK

VOLUNTEER EXPERIENCE

- Led as the College Sports General Secretary, coordinating and overseeing 12 number of sports events, resulting in a 42% increase in overall participation and engagement.
- Directed and managed zonal-level sports events in my college, leading a portfolio of 12 events with a focus on optimizing efficiency and delivering a 31% improvement in overall event performance and participant satisfaction.
- Assisted as a Technical Volunteer at Linux World Informatics, I have supported approximately 9 students with their technical problems, significantly contributing to the collaborative learning environment and positively impacting 10% of their projects.