

# Diwakar Singh

## DevOps Engineer

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## Personal Details (Persönliche Daten)

**Nationality:** Indian

**Work Permit:** Requires visa (open to relocation to Germany)

**Availability:** Available upon request

**Languages:** English – C1 (Professional) Hindi – Native German – A1 (currently learning)

## Professional Profile

DevOps Engineer with **2+ years** of professional experience in cloud infrastructure automation, CI/CD pipeline design, and container orchestration using Kubernetes and Docker. Delivered measurable outcomes including **99.9% uptime**, **50% faster environment provisioning**, and **35% infrastructure cost reduction** on AWS using Terraform and Ansible. Currently advancing cloud expertise through an M.Tech in Cloud Computing at BITS Pilani. Seeking a DevOps or Cloud Engineer role in Germany to contribute to scalable, fault-tolerant engineering solutions.

## Technical Skills

**CI/CD:** Jenkins, GitHub Actions

**Cloud:** (AWS) – EC2, S3, VPC, ALB, RDS, Route 53, Auto Scaling, EKS, ECR, ECS, Fargate

**Infrastructure as Code (IaC):** Terraform

**Containerisation:** Docker, Kubernetes (K8s), Azure Container Apps

**Configuration Management:** Ansible

**Monitoring and Observability:** Prometheus, Grafana, cAdvisor, Portainer

**Code Quality and Security:** SonarQube, OWASP security testing

**Secrets Management:** HashiCorp Vault

**Databases:** PostgreSQL, MySQL

**Scripting:** Python, Bash

**Version Control:** Git, GitHub

**Operating Systems:** Linux (Ubuntu, CentOS)

## Professional Experience

**DevOps Engineer** | *Sharajman Technologies* | New Delhi, India

03/2024 – Present

- Engineered a **Jenkins CI/CD pipeline** integrating Docker, SonarQube, and OWASP security testing for Angular and FastAPI applications – reducing deployment time by **30%**, improving code stability by 20%, and enhancing security compliance by 25%.
- Managed monitoring and observability for **500+ containers** using Prometheus, Grafana, cAdvisor, and Portainer; achieved a **40% improvement in system performance** and 15% reduction in unplanned downtime.
- Architected and provisioned production-ready **AWS infrastructure using Terraform** – 10 web servers and 5 database servers with optimised resource allocation, delivering **99.9% SLA uptime** and 35% improvement in deployment efficiency.
- Deployed a **Kubernetes cluster** (1 control-plane node, 2 worker nodes) enabling containerised application scaling and reducing environment provisioning time by **50%**.
- Analysed **35+ government tender requirements** and designed comprehensive server architectures

incorporating CDN, S3, ALB, auto-scaling Kubernetes, and primary/secondary database disaster recovery – capable of handling **1000+ concurrent users** while reducing total infrastructure costs by 35%.

## Projects

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### Production-Grade Highly Available EKS Cluster on AWS

Personal Project, 2026

- 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 Application Deployment on AWS

Personal Project, 2024

- Implemented end-to-end DevOps lifecycle (Terraform IaC + GitHub Actions CI/CD) for an AWS-hosted web application – achieving **50% fewer deployment errors** and 30% higher team productivity through automated delivery pipelines.

## Certifications

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- Oracle Cloud Infrastructure DevOps Professional Oracle, 09/2023
- Oracle Certified Multi-Cloud Architect Associate Oracle, 09/2023
- AWS Training Certificate LinuxWorld Informatics, 04/2022
- DevOps Internship Certificate LinuxWorld Informatics, 09/2023

## Education

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**M.Tech – Cloud Computing** | *BITS Pilani, Distance Learning*

2026 – Present

**B.Tech – Engineering** | *Dr. A.P.J. Abdul Kalam Technical University, Agra*  
CGPA: 7.13 / 10.0

12/2020 – 06/2024

**Intermediate (PCM)** | *Central Board of Secondary Education (CBSE)*

2019 – 2020

Percentage: 81.6%

**High School** | *Indian Certificate of Secondary Education (ICSE)*

2017 – 2018

Percentage: 80.0%

## Extracurricular Activities

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- **Sports General Secretary** – coordinated 12 sports events, achieving a **42% increase** in overall student participation and engagement.
- **Technical Volunteer**, LinuxWorld Informatics – mentored engineering students in Linux and DevOps fundamentals.

## Currently Upskilling

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- German language – progressing from A1 toward B1 (Goethe-Institut)
- Certified Kubernetes Administrator (CKA)
- AWS Certified DevOps Engineer – Professional