

Sahil Sharma

DevOps Engineer

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Professional Summary

- Extensive experience in **Build Setup, Continuous Integration, and Continuous Deployment (CI/CD)** using **Jenkins, GitLab CI, and GitHub Actions**, including pipeline optimization, failure handling, and artifact management.
 - Strong hands-on expertise in **Source Code Management (SCM)** using **Git and GitHub**, with practical experience in branching strategies and version control best practices.
 - Strong working knowledge of **Linux/Unix systems**, including shell scripting (Bash), process management, file system administration, permissions, cron jobs, and system troubleshooting.
 - In-depth knowledge of **AWS Cloud services**, including **EC2, S3, EBS, VPC, Subnets, ELB, Auto Scaling, and Security Groups**, with experience in designing secure and highly available architectures.
 - Strong knowledge of **Microsoft Azure services** including **Virtual Machines, Blob Storage, VNets, Subnets, Load Balancer, VM Scale Sets, and Network Security Groups (NSGs)**.
 - Experienced in designing **secure, scalable, and highly available cloud architectures**.
 - Practical experience with **containerization using Docker**, including Dockerfile creation, image optimization, container lifecycle management, and application packaging for different environments.
 - Strong understanding of **CI/CD best practices**, environment configuration, and secrets management.
 - Proven ability to collaborate with **developers, QA, managers, and cross-functional teams** to coordinate releases, troubleshoot deployment issues, and improve delivery timelines.
 - Quick learner with the ability to adapt to **new tools, cloud services, and DevOps practices** in fast-paced and evolving environments.
 - Hands-on experience deploying and managing applications across **multiple technology stacks**, including:
 - PHP-based projects (CMS and frameworks)
 - MERN / MEAN stack applications
 - Backend services developed using **Python, Java, and Go**
 - Experience configuring, deploying, and managing applications on **Apache, Nginx, Caddy, and Apache Tomcat** across development, staging, and production environments.
 - Proficient in **build automation and dependency management** using **Maven**, including multi-module projects and environment-specific builds.
 - Experience in **configuration management and infrastructure automation** using **Ansible**, managing large-scale production environments, playbook optimization, and role-based configurations.
 - Hands-on experience in **application deployment and release management**, including deploying **JAR and WAR applications on Apache Tomcat**, version upgrades, rollback strategies, and server tuning.
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Employment History

IAPP Technologies – Mohali – Dec 2023 to Present

DevOps Engineer

Dec 2023 – Present

- Designed and maintained CI/CD pipelines using Jenkins and GitLab CI to automate build, test, and deployment workflows.
- Supported Linux-based servers for development and production environments, handling monitoring, troubleshooting, and routine maintenance.
- Built and deployed Docker images for multiple applications, improving deployment consistency and rollback capability.
- Managed cloud resources primarily on AWS and DigitalOcean, including compute, networking, and basic security configurations.
- Implemented monitoring and alerting using Prometheus, Grafana, and Nagios to improve system visibility and reduce downtime.
- Automated operational tasks using Bash scripts, reducing manual effort and recurring errors.
- Worked closely with developers to debug deployment issues, optimize pipelines, and ensure reliable releases across environments.

Projects

AI-Driven Automated Social Media Ads Platform – EcomNinja

Tech Stack:

AWS (EC2, Auto Scaling Groups, ALB, Route 53, RDS, S3), Docker, Docker Compose, Python, n8n, Shopify API, Ollama (LLM), ComfyUI

- Built an automated platform to generate AI-based social media ad creatives from Shopify product data.
- Integrated **Shopify API** and orchestrated workflows using **n8n**.
- Developed **Python microservices** for AI-powered ad copy and image generation.
- Containerized services using **Docker and Docker Compose** for consistent deployments.
- Deployed on **AWS with Auto Scaling and ALB**, using **Spot Instances** for cost optimization.
- Used **RDS and S3** for persistent storage with stateless application design.

Conexie – IoT Device Management Platform

Tech Stack:

AWS IoT Core, EC2, Auto Scaling Groups, ALB, S3, DynamoDB, IAM, CloudWatch, Docker, Linux, MQTT, SSL/TLS

- Built **scalable IoT platform** using AWS IoT Core and MQTT for secure device communication.
- Deployed Dockerized backend services on **EC2 with Auto Scaling and ALB**.
- Secured devices and infrastructure using **IoT certificates, IAM roles, Security Groups, and SSL/TLS**.
- Stored device data in **DynamoDB and S3** with stateless service design.
- Monitored logs and system health using **CloudWatch**.

Remame – Multi-Region Server Setup Using Terraform

Tech Stack:

Terraform, AWS (EC2, VPC, Security Groups, IAM), Linux, Nginx, SSH, CloudWatch

- Created **6 EC2 servers in different AWS regions** using Terraform.
- Set up **networking (VPC, subnets) and security (Security Groups, IAM)** for each region.
- Installed and configured the application on all servers using **Linux and Nginx**.
- Secured access using **SSH key-based authentication**.
- Used Terraform to update and manage infrastructure changes.
- Monitored server status and logs using **CloudWatch**.

Education

Bachelor of Technology (B.Tech) – Computer Science & Engineering, 2019 to 2023
IKG Punjab Technical University, Hoshiarpur