

# Saheel Patil – DevOps Engineer

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## EXPERIENCE

### HCL Tech, Noida, Uttar Pradesh — DevOps Engineer

Nov 2022 - PRESENT

- **Security Architecture:** Led the development and implementation of robust security protocols, including encryption, access controls, and vulnerability management, enhancing system security and compliance by 50%.
- **Collaboration & Independence:** Excelled in both collaborative and independent environments, leading cross-functional teams and driving projects to successful completion.
- **CI/CD Pipeline Optimization:** Enhanced CI/CD pipelines using Jenkins and GitLab CI, reducing deployment times by 40% and minimizing errors by 50%.
- **Cloud Infrastructure Management:** Managed cloud infrastructure on AWS and Azure, optimizing resources to achieve a 30% reduction in operational costs.
- **Configuration Management:** Implemented and maintained infrastructure as code using Terraform and Ansible, improving deployment consistency and efficiency.
- **Containerization & Orchestration:** Deployed and managed containerized applications using Docker, Kubernetes, and Helm, scaling services to meet growing demand.

## KEY SKILLS

Containerization	Docker, Kubernetes, Helm
Cloud Platforms	AWS, Azure
CI/CD Tools	Jenkins, GitHub, GitLab CI
Configuration Management	Terraform, Ansible
Scripting Languages	Python, Bash
Monitoring	Prometheus, Grafana
Security	SonarQube, Trivy
Other	CloudFormation, ALB, IAM, Ingress, EKS, EC2, S3, Argo CD, CloudWatch, Lambda, VPC, Nginx, Docker Hub

## PROJECTS

### Automated, Scalable AWS Deployment with Kubernetes and CI/CD

- **Scalable DevOps Pipeline:** Designed a pipeline for a **Flask/MySQL** application, increasing user capacity from 10,000 to 20,000.
- **High Availability:** Utilized **Docker**, **Kubernetes**, and **Helm** to design a system with 99.9% uptime, reducing downtime by 60%.
- **Deployment Efficiency:** Leveraged Amazon **EKS** and **Terraform**, enhancing deployment efficiency by 30% and reducing setup time by 80%.
- **AWS VPC Security:** Architected a secure **AWS VPC**, ensuring 100% internal traffic isolation.

### High-Performance Streaming Platform Deployment with Comprehensive Monitoring and Automation

- **Streamlined Deployment:** Organized Docker-based local deployment, reducing deployment time by 30%.
- **Security Enhancement:** Integrated **SonarQube** and **Trivy**, reducing vulnerabilities by 20%.
- **Real-Time Monitoring:** Implemented **Prometheus** and **Grafana**, decreasing downtime incidents by 25%.

### Transformed Cost Management in CI/CD Processes, Realizing 40% Reduction with Jenkins and Terraform

- **CI/CD Pipeline Optimization:** Achieved a 40% reduction in infrastructure costs and a 50% faster setup time by optimizing the **CI/CD** pipeline.
- **Automated Resource Management:** Developed AWS **Lambda** functions to automate test environment lifecycles, reducing manual intervention by 90%.
- **Cost Reporting:** Automated cost reporting with AWS Cost Explorer API, improving budget adherence by 20%.
- **Enhanced Monitoring:** Utilized AWS CloudWatch for real-time monitoring, improving pipeline reliability by 30% and enabling early anomaly detection.

## EDUCATION

**K. K. Wagh Institute of Engineering Education and Research, Nashik** — Bachelor of Engineering (B.E.) in Electronics and Telecommunications

Jul 2018 - Aug 2022

