

# KSHITIJ HATWAR

DevOps Engineer · Kubernetes Administrator · SRE · Platform Engineer

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<b>3.5+</b> Years Experience	<b>40%</b> Docker Image Reduction	<b>35%</b> Vulnerabilities Cut	<b>50+</b> Servers Automated	<b>3</b> Certifications
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## PROFESSIONAL SUMMARY

Results-driven DevOps Engineer and Certified Kubernetes Administrator with 3.5+ years of experience at **Yotta Data Center**, managing mission-critical Kubernetes clusters, architecting CI/CD pipelines, and automating infrastructure at scale. Delivered measurable outcomes: **40% reduction in Docker image sizes**, **35% elimination of infrastructure vulnerabilities**, and **100% zero-downtime HA cluster upgrades** across production environments. Holds CKA, AWS SAA-C03, and ITIL 4 certifications. Advancing into AI infrastructure via an **M.Tech in Generative AI & Data Science at IIT Jammu** uniquely positioned at the intersection of platform engineering and AI systems.

## WORK EXPERIENCE

### DevOps Engineer | Yotta Data Center · Mumbai, India

July 2022 – Present

Hired to build, harden, and scale production Kubernetes infrastructure for enterprise clients across Yotta's data center operations.

- ▶ Deployed and managed production-grade Kubernetes clusters using kubeadm, owning full lifecycle across networking, storage, Network Policy, and node management for always-on, SLA-bound workloads.
- ▶ Reduced Docker image sizes by 40% by engineering optimized multi-stage Dockerfiles cutting registry costs, improving pull latency, and shrinking the attack surface across all containerized services.
- ▶ Executed zero-downtime upgrades of HA Kubernetes clusters using kubeadm rolling strategy, enforcing strict security compliance while maintaining continuous service availability across control plane and worker nodes.
- ▶ Built and maintained CI/CD pipelines in Jenkins with automated linting, unit testing, and container vulnerability scanning stages, shifting quality left and blocking defects before they reached production.
- ▶ Automated configuration management across 50+ servers using Ansible playbooks, eliminating configuration drift and reducing manual provisioning overhead by a significant margin.
- ▶ Authored reusable Terraform modules to provision and manage AWS cloud infrastructure keeping environments consistent, version-controlled, and reproducible across dev, staging, and production.
- ▶ Reduced infrastructure vulnerabilities by 35% by partnering with cybersecurity teams to remediate VAPT findings and enforce ongoing compliance with industry security standards.
- ▶ Implemented real-time observability across Kubernetes clusters using VictoriaMetrics and Grafana, delivering full visibility into cluster health, network traffic, and application performance metrics.
- ▶ Performed ETCD backup and restore operations in HA clusters using etcdctl snapshot commands, ensuring disaster recovery readiness and meeting defined RTO targets.
- ▶ Authored SOPs and infrastructure runbooks, improving cross-team knowledge sharing, cutting onboarding time, and supporting dedicated client environment setups.

## KEY PROJECTS

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### Automated Microservices Deployment Pipeline

Jenkins · Docker · Kubernetes · Helm · GitHub · Shell Scripting · CI/CD

- ▶ Built an end-to-end Jenkins pipeline automating the full build, test, and deployment lifecycle for microservices on Kubernetes, eliminating manual handoffs between dev and infra teams.
- ▶ Configured GitHub-triggered Jenkins jobs to pull source code, build Docker images, and push to a private container registry on every commit enabling true continuous delivery.
- ▶ Integrated Helm charts for environment-specific deployments across dev, staging, and production namespaces with minimal configuration delta between environments.
- ▶ Implemented parameterized rollback capability enabling one-click recovery to any previous image tag without manual intervention, keeping production recoverable during bad releases.

### Kubernetes Monitoring via VictoriaMetrics & Grafana

Kubernetes · VictoriaMetrics · Grafana · CloudStack CSI · LoadBalancer · Linux

- ▶ Architected and deployed a highly available VictoriaMetrics cluster from scratch as a scalable, long-term metrics storage backend for production Kubernetes environments.
- ▶ Built comprehensive Grafana dashboards integrated with VictoriaMetrics delivering real-time visibility into cluster health, resource utilization, and application performance for the entire team.
- ▶ Configured CloudStack CSI persistent storage and Kubernetes LoadBalancer networking for stable, production-grade monitoring access eliminating observability blind spots and accelerating incident response.

### Small-Scale LLM Training - End-to-End Transformer

Python · PyTorch · Kubernetes · Transformer Architecture · RAG · Data Preprocessing

- ▶ Engineered a Transformer model from scratch including multi-head attention, positional encoding, and custom data loaders building hands-on, first-principles understanding of LLM internals.
- ▶ Deployed the complete training workflow on a personal Kubernetes cluster, applying production-grade orchestration to ML workloads and validating output via coherent text generation.
- ▶ Verified architectural correctness by successfully loading public GPT-2 weights, confirming structural compatibility and implementation quality of the custom model.

### Kubernetes HA-Cluster Upgrade & ETCD Disaster Recovery

Kubernetes · kubeadm · kubectl · ETCD · etcdctl · High Availability · Linux

- ▶ Planned and executed Kubernetes version upgrades on a multi-master HA cluster using kubeadm rolling strategy, maintaining full availability throughout the entire upgrade window.
- ▶ Implemented and tested ETCD backup and restore procedures using etcdctl snapshot commands validating restored snapshots for data integrity and delivering full disaster recovery readiness.
- ▶ Upgraded control plane components (kube-apiserver, kube-controller-manager, kube-scheduler) then worker nodes sequentially, with post-upgrade validation of node status, workloads, and add-ons.

## CORE SKILLS & TOOLS

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<b>Container &amp; Orchestration</b>	Kubernetes (CKA) · Docker · Helm · kubeadm · EKS · Network Policy · RBAC · High Availability · ETCD
<b>DevOps &amp; CI/CD</b>	Jenkins · Git · GitHub · ArgoCD · CI/CD Pipelines · Ansible · Terraform · IaC · Shell Scripting
<b>Cloud &amp; Infrastructure</b>	AWS (SAA-C03) · Azure · VPC · EC2 · S3 · IAM · Nginx · Red Hat · Ubuntu · Windows Server
<b>Observability &amp; Security</b>	VictoriaMetrics · Grafana · Zabbix · VAPT · Compliance · Disaster Recovery · SRE Practices

## CERTIFICATIONS

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◆ **Certified Kubernetes Administrator (CKA)** *Valid:- July 09, 2025 - July 10, 2027*

Certificate ID:- LF-gvcl5ejyzx

◆ **AWS Solutions Architect Associate (SAA-C03)** *Valid:- June 10, 2024 – June 10, 2027*

Certificate ID: 7f1acb99cdb84baabb42f3c3cfc32de3

◆ **ITIL 4 Foundation** *Valid:- June, 2027*

Certificate ID: GR671772484KH

## EDUCATION

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### M.Tech - Generative AI & Data Science

Indian Institute of Technology (IIT), Jammu · Online

2026 – Present

### B.E. - Electronics & Telecommunications

G. H. Raisoni College of Engineering, Nagpur

2018 – 2022

## ACHIEVEMENTS & RECOGNITION

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- ▶ 40% reduction in Docker image sizes through optimized multi-stage Dockerfiles, directly improving CI/CD speed and registry cost.
- ▶ 35% fewer infrastructure vulnerabilities achieved via structured VAPT remediation cycles in partnership with cybersecurity teams.
- ▶ 50+ servers automated with Ansible playbooks, eliminating configuration drift across the entire production server estate.
- ▶ Zero downtime maintained across all HA Kubernetes cluster upgrades, zero SLA breaches recorded.
- ▶ Built and trained a full LLM end-to-end on a personal Kubernetes cluster, validating model output against public GPT-2 weights.
- ▶ Actively publishing technical content at [medium.com/@kshhat6685](https://medium.com/@kshhat6685) and maintaining a personal portfolio at [kshitijhatwar.xyz](https://kshitijhatwar.xyz).