

# HRITIK SATISH MUNDE

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## EXPERIENCE

### DevOps Engineer (Graduate Assistant) | Indiana University Bloomington

Bloomington, IN | Aug 2025 – May 2026

- Provisioned **Linux** lab environments on **AWS EC2** with **Ansible** automation for 200+ students per semester, cutting environment setup time by **70%** and removing per-machine manual steps.
- Automated grading-environment teardown and rebuild with **Bash** and cron against instance inventories, reducing recurring course operations effort by **60%** each semester.

### DevOps Engineer | UST (Client: T-Mobile)

Pune, India | Jul 2022 – Jul 2024

- Migrated legacy **Jenkins** build and test jobs to **GitHub Actions** with parallel test execution across distributed runners and dependency caching, cutting average pipeline runtime by **65%**.
- Developed internal tooling in **Go** with client-go for orphaned-resource sweeps and namespace audits across clusters, replacing manual kubectl checks and saving **6+ engineer-hours weekly**.
- Standardized monitoring and logging on **Prometheus**, **Grafana**, and **Loki** with SLO alert rules tied to runbooks, dropping incident detection from roughly 30 minutes to **under 5**.
- Carried weekly on-call for a high-availability **Kubernetes (EKS)** platform, troubleshooting deploy failures and node incidents, cutting repeat incidents by **35%** through postmortem fixes.

### Software Engineer Intern | Tata Motors

Pune, India | Aug 2021 – Mar 2022

- Engineered **Java** REST backend services for an internal workflow platform, adding response caching and pagination that cut data-retrieval latency by **40%** on the heaviest queries.
- Diagnosed slow **SQL** queries with execution plans to root-cause latency, restructuring joins and indexes across reporting services and improving dashboard load times by **25%**.

## PROJECTS

### Self-Healing LLM Inference Platform | EKS, vLLM, AWS Bedrock, ArgoCD, Prometheus, Python

Jul 2026

- Built a self-healing platform on **EKS** serving an LLM through **vLLM** on GPU nodes, with an AIOps agent that diagnoses **Prometheus** alerts via **AWS Bedrock**, opening remediation PRs in **under 1 minute**.
- Designed safe autonomy where the LLM chooses only from a vetted 4-action set and code applies the change, gating every fix behind PR review and holding unreviewed infrastructure edits at **zero**.

### Zero-Trust CI/CD Pipeline | GitHub Actions, OIDC, Cosign, OPA Gatekeeper, Trivy, Syft

Nov 2025

- Architected a zero-trust **CI/CD** pipeline enforcing **OIDC** access control, **Cosign** image signing, and **OPA** admission checks, blocking **100%** of unsigned or non-compliant images in testing.

### Shipyard, Internal Developer Platform | Terraform, Kubernetes (EKS), ArgoCD, Backstage, Crossplane

Jan 2026

- Delivered a self-service developer platform on Kubernetes with **Backstage** templates and **Crossplane** compositions, compressing sandbox provisioning from about 3 days to **3 minutes**.

## EDUCATION

Indiana University Bloomington | Master of Science, Computer Science | GPA: 3.9/4.0

Aug 2024 – May 2026

Pune University | Bachelor of Technology, Computer Engineering | GPA: 3.65/4.0

Aug 2018 – May 2022

## TECHNICAL SKILLS

**Languages:** Python, Go, Bash/Shell, Java, SQL, Rust

**Systems:** Linux/Unix (RHEL, Debian/Ubuntu), systemd, networking (DNS, TLS, load balancing), distributed systems reliability and troubleshooting

**Containers & Orchestration:** Kubernetes (EKS), Docker, Helm, ECR

**CI/CD & Pipeline Engineering:** Jenkins, GitHub Actions, ArgoCD, GitOps, Backstage, Crossplane, Terraform, Ansible, system automation

**Observability & Incident Management:** Prometheus, Grafana, Loki, OpenTelemetry (metrics, logs, traces), AlertManager

**Infrastructure Security:** OIDC, RBAC and IRSA access control, Cosign, OPA Gatekeeper, vulnerability assessment (Trivy, Syft SBOM), patch automation

**AI/LLM Infrastructure:** vLLM, GPU model serving (NVIDIA), AWS Bedrock, AIOps remediation, inference SLOs

**Cloud:** AWS (EC2, VPC, IAM, Lambda, CloudWatch), Azure (AKS)

**Certifications:** RHCSA (Certified), HashiCorp Terraform Associate (Certified), CKA (In Progress, July 2026)