

Jigyasu Singh Chouhan

DevOps Engineer

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ABOUT ME

DevOps / Platform Engineer with ~2.5 years of experience building and operating scalable cloud infrastructure, CI/CD pipelines, and production-grade systems across AWS and Azure. Experienced in distributed systems, containerized workloads, observability, and DevSecOps, with hands-on exposure to AI/LLM workloads and GPU infrastructure. Proven ability to improve system reliability, optimize deployment pipelines, and reduce infrastructure cost in high-availability environments.

Focused on automation, performance optimization, and scalable system design in fast-paced, production-driven environments.

TECHNICAL SKILLS

- **Languages:** Python, Shell Scripting, SQL
- **CI/CD & DevOps Tools:** Jenkins, GitHub Actions, GitLab CI/CD, Docker, Maven, SonarQube, Git, Bitbucket
- **Cloud Platforms:** AWS (EC2, S3, RDS, ALB, ELB, IAM, VPC, Route53, CloudWatch, DynamoDB, Cloudfront), Azure, Azure DevOps
- **Infrastructure & Configuration:** AML, Linux, Bash, Apache Tomcat, NGINX, Cloudflare, SSL, Domain Management
- **Monitoring & Logging:** Grafana, Prometheus, New Relic, AWS CloudWatch
- **Version Control & Tracking:** GitHub, GitLab, Bitbucket, Jira, GitBash
- **Project Management:** Asana, Agile/Scrum
- **Other Skills:** CI/CD Pipelines, Containerization, DevSecOps, Infrastructure as Code (IaC), Security Best Practices, Automation, Production Support, System Monitoring, Troubleshooting, Deployment Automation
- **Architecture & Concepts:** Microservices, Distributed Systems, Event-Driven Architecture, High Availability, Fault Tolerance, Scalability, SRE
- **AI / Advanced Systems:** AI/ML Deployment, LLM Systems, GPU Infrastructure, Inference Optimization

WORK EXPERIENCE

Associate DevOps Engineer

Rootle Voconv Private Limited | Nov 2025 – Present

- Architecting and operating **cloud infrastructure for AI/LLM workloads**, including GPU-based environments for inference and real-time systems
- Deploying and operating **LLM systems in production**, optimizing latency, throughput, and cost efficiency
- Designing and maintaining **CI/CD pipelines (Jenkins, GitHub Actions)** for automated deployments
- Containerizing applications using **Docker** and supporting **Kubernetes-based workloads**
- Built internal **observability and infrastructure management platform**:

- Real-time monitoring of system metrics (CPU, memory, disk, network)
- Automated alerting for proactive incident detection
- Server lifecycle management (start/stop/reboot)
- Managing **AWS cloud infrastructure**, ensuring high availability, scalability, and fault tolerance
- Implementing **monitoring systems (Prometheus, Grafana, CloudWatch)** to improve observability
- Optimizing **GPU utilization and infrastructure cost** through workload tuning
- Applying **DevSecOps practices**, including IAM, secrets management, and CI/CD security integration
- Improving system reliability through **automation, health checks, logging, and proactive incident handling**
- Designed systems for reliability using **autoscaling, failure recovery, and high-availability patterns**

DevOps Engineer

Vrinsoft Technology Pvt. Ltd | July 2025 – Oct 2025

- Designed and maintained scalable CI/CD pipelines using Jenkins, GitHub Actions, and GitLab CI/CD for production-grade applications.
- Implemented Auto Scaling and ECS deployments to ensure high availability and efficient resource utilization.
- Enforced code quality and static code analysis using SonarQube, improving reliability and maintainability of applications.

DevOps Engineer

Sigma Solve, Inc. | Dec 2023 – June 2025

- Designed and maintained scalable **CI/CD pipelines** using **Jenkins, GitHub Actions, and GitLab CI/CD**, automating build, test, and deployment workflows across various tech stacks.
- Collaborated with **Python teams** to deploy **FastAPI, AI/ML, and microservice-based applications** integrated with **RabbitMQ, Redis, and Celery**.
- Successfully deployed **.NET MVC applications** in both **staging and production**, managing **SQL Server** configurations and database integrations.
- Managed production deployments for **Node.js, Next.js, monolithic, and microservice-based architectures**, ensuring **high availability** and system stability.
- Deployed and maintained **PHP and Laravel** applications using custom **CI/CD workflows** and environment-specific configurations.
- Utilized **AWS DevOps services** to deploy **WordPress applications**, streamlining infrastructure management and improving operational efficiency.
- Configured system monitoring using **Grafana, Prometheus, New Relic, and AWS CloudWatch**, improving observability and proactive alerting.
- Integrated **DevSecOps** practices into **CI/CD pipelines**, automating **security scans** and managing **IAM-based access control**.
- Enforced code quality through **SonarQube**, maintaining **static code analysis** and quality gating across multiple repositories.
- Actively participated in **Agile** ceremonies, including **daily standups** and **sprint planning**, using **Asana** and **Jira** for task tracking and issue resolution.

- Collaborated to resolve **critical production issues (P1–P3)**, ensuring **minimal downtime** and fast recovery.
- Documented deployment processes, pipelines, and best practices, facilitating smooth team onboarding and knowledge sharing.
- Supported **blockchain application deployments**, focusing on **scalability**, **security**, and **infrastructure resilience**.

PROJECTS

Cloud Observability & Infrastructure Management Platform

- Designed and built an internal observability platform integrating with cloud monitoring APIs (CloudWatch)
- Implemented real-time monitoring of CPU, memory, disk, and network metrics across multiple cloud instances
- Developed automated alerting system for proactive incident detection and faster response
- Built server lifecycle management capabilities (start/stop/reboot) to reduce manual operations
- Centralized infrastructure monitoring and control, improving system visibility, reliability, and operational efficiency
- Reduced dependency on manual cloud console usage through automated infrastructure operations

AI/LLM Deployment & GPU Infrastructure

- Deployed and managed AI/LLM-based applications in production environments
- Worked with GPU-based infrastructure for high-performance inference workloads
- Optimized latency, throughput, and cost efficiency through resource tuning and workload scheduling
- Built scalable pipelines for AI model deployment and execution
- Supported real-time and batch inference systems, ensuring performance and stability

Scalable CI/CD Automation System

- Designed and implemented end-to-end CI/CD pipelines using Jenkins, GitHub Actions, and GitLab CI/CD
- Automated build, test, and deployment workflows across multiple applications
- Integrated SonarQube for code quality and security enforcement
- Implemented automated notifications and deployment tracking
- Improved deployment reliability and reduced manual effort through automation

Django Application Deployment with CI/CD (AWS)

- Deployed a Django application using 3-tier architecture on AWS EC2
- Implemented CI/CD pipelines using Jenkins, Docker, SonarQube, and Git
- Containerized application using Docker for consistent deployments
- Integrated monitoring and logging for improved observability
- Optimized pipeline performance, reducing deployment time by ~50%

BreezeStay – Rental Platform (Co-Founder Project)

- Designed and built end-to-end cloud infrastructure and deployment workflows
- Developed scalable architecture supporting multi-user access and dynamic workloads
- Implemented CI/CD pipelines and automated deployments
- Integrated monitoring and alerting systems for production stability
- Focused on building a reliable, scalable, and secure platform

Timetable Generation System (TTGS)

- Developed a web application to automate academic scheduling processes
- Built using Python, MySQL, and Docker for efficient deployment
- Reduced manual scheduling effort through automation

- Implemented containerized deployment for portability and consistency

EDUCATION

- **Master of Computer Applications (MCA)**
MIT World Peace University, Pune | 2022 – 2024
- **Bachelor of Computer Application**
SP College, Mohanlal Sukhadia University, Udaipur | 2019 – 2022

Licenses & Certifications

- AWS Cloud Technical Essentials - edX
- AWS Academy Graduate - AWS Academy Cloud Architecting
- AWS Certified Solutions Architect Associate SAA-C03 – Udemy

PERSONAL DETAILS

- **Date of Birth:** 14 May 2001
- **Home Location:** Shastri Nagar Colony Sirohi Rajasthan
- **Preferred Location:** Pune / Bangalore
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