

# SIDDHANT BIRHADE

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## Summary

Software DevOps Engineer with a solid foundation in AWS, Docker, Jenkins, Git, and Terraform. Skilled in automating deployments, managing cloud infrastructure, and ensuring smooth CI/CD pipelines. Interested in building scalable systems and improving development efficiency in collaborative, fast-paced environments.

## Skills

**Programming & Scripting:** Python, Java , Bash, YAML

**DevOps & Cloud Tools:** AWS, Docker, Jenkins, Git, Terraform, Ansible, Kubernetes

**CI/CD & Automation:** Pipeline Creation, Deployment Automation, Infrastructure as Code (IaC)

**Monitoring & Configuration:** Linux Administration, System Monitoring, Troubleshooting, Version Control

## Experience

### Project Engineer (Academic Role)

*College Final Year Project*

**January 2025 – April 2025**

*Tools Used: Jenkins, Docker, SonarQube, Trivy, OWASP*

- Built a CI/CD pipeline using Jenkins to automate code testing, security scans, and Docker image deployments for consistent delivery.
- Integrated SonarQube, OWASP, and Trivy for automated quality and vulnerability checks, ensuring secure and compliant builds.
- Containerized applications and pushed Docker images to Docker Hub, enabling version-controlled and efficient distribution.
- Gained a strong understanding of the DevOps lifecycle, CI/CD automation practices, and infrastructure management workflows.

## Projects

### Flight Management CI/CD Pipeline | Jenkins, Docker, Kubernetes, Terraform,

**August 2025 – september 2025**

- Built a cloud-based flight management system with automated deployment using CI/CD pipelines for faster and reliable releases.
- Configured Jenkins, Docker, and Kubernetes for zero-downtime deployments across development and production environments.
- Integrated GitHub repositories with Jenkins, automating build and deployment processes to improve workflow efficiency.

### DevSecOps Deployment for E-commerce App | Jenkins, Docker, Ansible, Trivy, SonarQube

**June 2025 – July 2025**

- Implemented a DevSecOps pipeline to deploy a scalable e-commerce application with CI/CD automation for rapid, secure releases.
- Integrated security checks using Trivy and SonarQube to detect vulnerabilities and ensure code quality.
- Used Jenkins, Docker, and Kubernetes to containerize and deploy the application efficiently across multiple environments.
- Managed infrastructure with Terraform and Ansible and monitored performance using Prometheus and Grafana dashboards.

## Awards & Certifications

- **AWS Solutions Architect Associate – Ethan's Tech (Aug 2024 – Sep 2024):** Completed training on core AWS services, architecture design, and cloud best practices.
- **DevOps Tools Certification – Ethan's Tech (Nov 2024 – Jan 2025):** Gained hands-on expertise in Jenkins, Docker, Kubernetes, Terraform, and CI/CD automation.
- **Published Research Paper – IJNRD (2025):** “Conversational Image Recognition Chatbot” published with Registration ID: IJNRD\_306173 and Published ID: IJNRD2504514.

## Education

### B.Tech in Information Technology

*DY Patil University, Pune*

**Graduated: 2025**

**CGPA: 7.92 / 10**