

# SIDDHANT BIRHADE

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## Summary

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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

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**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

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### Project Engineer (Academic Role)

January 2025 – April 2025

*College Final Year Project*

*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

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### 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

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- **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

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### B.Tech in Information Technology

*DY Patil University, Pune*

**Graduated: 2025**

*CGPA: 7.92 / 10*