

ROHIT SINGH

Haldwani, Uttarakhand

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Professional Summary

DevOps-focused Computer Science student skilled in building and deploying production-ready applications using CI/CD pipelines, Docker, Jenkins, and cloud-native tooling. Strong foundation in automation, infrastructure management, and secure deployment practices. Committed to delivering scalable, reliable, and secure software systems with high code quality.

Technical Skills

Languages: Python, Java, C, C++, JavaScript, Bash/Shell
CI/CD & Orchestration: Jenkins, GitHub Actions, Docker, Docker Compose
Security & Analysis: SonarQube, Trivy, OWASP, Docker Image Scanning
Frameworks & Libraries: Flask, React.js, Pandas, Scikit-learn
Databases: MySQL, SQLite, PostgreSQL, Query Optimization
Cloud & Infrastructure: Linux, Git, GitHub, Gunicorn
DevOps Practices: Infrastructure as Code, Continuous Integration, Continuous Deployment, Zero-downtime Deployments, Health Checks

Projects

Secure File Encryption System (Flask, Docker, Jenkins)

Jun 2025

- Developed a secure Flask application using **Fernet (AES-128)** encryption and **SHA-256 hashing** for file protection.
- Designed a **6-stage Jenkins CI/CD pipeline** with Docker and Gunicorn (4-worker load balanced) enabling zero-downtime deployments.
- Integrated automated testing using pytest and GitHub webhooks, achieving **85%+ code coverage**.
- Optimized system to support **100+ concurrent users** and large file uploads (up to 50MB) with account lockout protection.
- Implemented **role-based access control (RBAC)** and secure token-based sessions to prevent unauthorized access.

Wanderlust – DevSecOps CI/CD Pipeline (Jenkins, SonarQube, Trivy, OWASP)

Oct 2025

- Built a DevSecOps CI/CD pipeline integrating automated security scanning, reducing deployment time by **25%**.
- Improved overall code quality by **30%** using SonarQube static code analysis.
- Decreased container vulnerabilities by **40%** through Trivy image scanning.
- Led a 4-member team implementing CI/CD best practices and compliance checks for secure, repeatable deployments.

Education

Graphic Era Hill University

Sep 2022 – Jul 2026 (Expected)

B.Tech in Computer Science and Engineering — CGPA: 8.82

Bhimtal, India

Mount Berry Inter College

Jun 2021

Intermediate, Science Stream — 83%

Lucknow, India

Achievements & Certifications

- AWS Cloud Practitioner Essentials (2025) — Completed foundational AWS cloud concepts and core services.
- Arduino Workshop (ECE Dept., 2023): Built three automation mini-projects.
- Data Visualization Program (Tata Forage, 2025): Designed dashboards for **10k+ records**.
- Google Cloud Computing Foundations — NPTEL.
- Oracle Cloud Infrastructure Certified DevOps Professional (2025).