

SHASHANK KUMAR SINGH

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PROFESSIONAL SUMMARY

Aspiring DevOps Engineer with practical experience in designing CI/CD pipelines, automating cloud infrastructure, and deploying applications on AWS. Proficient in Docker, Kubernetes, Terraform, and GitHub Actions, with exposure to DevSecOps practices including security scanning and monitoring. Strong problem-solver focused on building scalable and efficient systems.

EDUCATION

University of Engineering & Management, Jaipur | *B.Tech in Computer Science & Engineering* | **CGPA: 7.5/10**
Aug 2022 – June 2026

TECHNICAL SKILLS

- **Cloud:** AWS (EC2, S3, RDS, Lambda, ECR, IAM, Secrets Manager, CloudWatch)
- **DevOps & CI/CD:** GitHub Actions, Jenkins, ArgoCD (GitOps), Git, Helm
- **Containerization:** Docker, Kubernetes (EKS)
- **Infrastructure as Code:** Terraform, Ansible, Checkov, tfsec
- **Security & Monitoring:** Trivy, Snyk, SonarQube, Prometheus, Grafana
- **Programming & Backend:** Python (Flask, Django, boto3), SQL, REST API Development
- **Tools & Platforms:** Git, GitHub, Amazon ECR

EXPERIENCE

DevOps Engineer Intern | WebArclight — Remote *Oct 2025 – Dec 2025*

- **Automated Workflows:** Engineered CI/CD pipelines using GitHub Actions and Jenkins, reducing manual deployment overhead and ensuring consistent build/test cycles.
- **Security Hardening:** Integrated SonarQube, Snyk, and Trivy into CI/CD pipelines to automate code quality checks and vulnerability scanning, resulting in 40% faster identification of vulnerabilities before production.
- **Identity Management:** Enhanced cloud security by implementing **OIDC-based authentication** for AWS, eliminating the risks associated with long-lived IAM credentials.
- **Secret Management:** Migrated hardcoded configurations to **AWS Secrets Manager**, improving compliance and centralized credential rotation.
- **Observability:** Built and configured Grafana dashboards and Prometheus exporters to monitor application health, reducing Mean Time to Detection (MTTD) for system alerts.

PROJECTS

CloudCart — DevSecOps EKS Pipeline | *Terraform, Github Actions, ArgoCD, Helm*

- Architected a full **GitOps** pipeline to deploy containerized microservices to AWS EKS using ArgoCD.
- Automated infrastructure provisioning with **Terraform**, ensuring environment parity between Dev and Prod.
- Applied **Shift-Left security** by integrating Checkov and tfsec to scan IaC templates for misconfigurations during the PR stage.
- Deployed and managed 3+ microservices on AWS EKS and Reduced deployment time by 30% using GitOps pipeline.

AWS Free Tier Usage Monitor | *Python, boto3, AWS Cost Explorer, GitHub Actions, Streamlit*

- Developed a serverless monitoring tool using Boto3 to track real-time AWS cost and usage data.
- Monitored usage across 4 AWS services (EC2, S3, RDS, Lambda)
- Created an automated reporting system via GitHub Actions that sends alerts when usage exceeds 80% of Free Tier limits, preventing unexpected billing.
- Built a Streamlit dashboard for visualization, reducing manual effort in tracking infrastructure health.

AWS CLI Automation Tool (aws-ops) | *Python, boto3, AWS EC2*

- Built a Python-based CLI to manage cross-region EC2 lifecycles (Start/Stop/Status).
- Streamlined routine cloud operations, reducing the time spent on manual AWS Console navigation for basic resource management.