Shashank Kumar Singh

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Professional Summary

Cloud & DevOps Engineer skilled in Linux system administration, cloud infrastructure (AWS), CI/CD automation, and containerized deployments. Hands-on experience building and deploying Dockerized full-stack apps on EC2, automating pipelines with GitHub Actions, and developing monitoring + alerting solutions. Seeking System / Cloud / DevOps roles where I can apply automation, troubleshooting and on-call readiness to improve reliability and deployment velocity.

Skills

- **DevOps & Cloud:** AWS (EC2, S3, RDS, Lambda), Azure, Google Cloud Platform (GCP), Docker, Kubernetes, Git/GitHub, GitHub Actions, CI/CD Pipeline Automation, Linux System Administration, Shell Scripting, Bash, Ansible, Jenkins, Terraform, Infrastructure as Code
- **Linux & System Administration:** Linux administration (SSH, package/process/service management), Networking (DNS, HTTP, TCP/IP, subnetting, Elastic IPs, security groups), and Monitoring/Observability (CloudWatch, logging, Discord webhook alerting)
- **Backend & Programming:** Python (Flask, Django), SQL, REST API Development, Data Structures & Algorithms

Projects

Full-Stack CI/CD Deployment on AWS

- Built and deployed a **containerized full-stack application** (React/Express frontend + Flask backend) on **AWS EC2** using **Docker and Docker Compose**.
- Implemented **end-to-end CI/CD pipelines using GitHub Actions** to automate build, test, and deployment on code push.
- Configured SSH access, Elastic IPs, environment variables, and deployment scripts for secure and reliable releases.
- Enabled rollback-friendly deployments to minimize downtime during failures.

AWS Free Tier Usage Monitor

- Developed a Python-based monitoring solution to track AWS Free Tier usage and cost across EC2, S3, RDS, and Lambda.
- Integrated AWS Cost Explorer API and boto3 to fetch near real-time usage and billing data.
- Automated monitoring jobs using GitHub Actions schedules, generating daily usage reports in JSON/CSV format.
- Implemented real-time Discord webhook alerts when usage thresholds are exceeded and built a Streamlit dashboard for visualization..

AWS EC2 CLI Automation Tool (aws-ops)

- Developed a Python-based CLI tool to manage AWS EC2 instances directly from the terminal.
- Implemented features to list, start, stop, and check status of EC2 instances using boto3.
- Supported multi-region and multi-profile AWS configurations, enabling flexible cloud operations across environments.
- Focused on automation, error handling, and clean CLI user experience.

Experience

DevOps Engineer Intern — WebArclight, Remote, India   Oct 2025 – Dec 2025

- Worked on an AWS-based CI/CD landing zone architecture supporting DEV, STAGING, and PROD environments.
- Built and maintained CI/CD pipelines using GitHub Actions and Jenkins for automated build, test, and deployment workflows.
- Integrated SonarQube for static code analysis and Snyk / Trivy for container and dependency vulnerability scanning.
- Enforced Infrastructure as Code (Terraform) compliance using Checkov.
- Participate in monitoring, troubleshooting, and optimizing system and application performance across cloud environments.
- Configured OIDC-based IAM roles to enable secure, secret-less deployments from CI pipelines to AWS.
- Automated environment-based deployments with manual approvals for production releases.
- Containerized applications using Docker and pushed images to Amazon ECR.
- Implemented secrets management using AWS Secrets Manager and supported monitoring and logging with Prometheus, Grafana, and ELK stack.

Education

Bachelor of Technology – Computer Science and Engineering   CGPA: 7.2

- University of Engineering & Management, Jaipur, India

Certifications

- AWS Cloud Practitioner Essentials (Amazon Web Services, 96.66%)
- Foundations of Cybersecurity (Google, 97.03%)
- Python for Data Science (SWAYAM, NPTEL, 71%, Elite + Silver)
- Problem Solving Through Programming in C (SWAYAM, NPTEL, 75%, Elite + Silver)