

# 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 app (React/Express frontend + Flask backend) on EC2 using Docker and Docker Compose.
- Implemented automated CI/CD with GitHub Actions to run tests and deploy on push to `main`, enabling repeatable, auditable releases.
- Configured secure access (SSH keys, Elastic IP), environment variable management, and rollback-friendly deploy steps to minimize downtime.

### AWS Free Tier Usage Monitor

- Developed a Python-based tool to track AWS Free Tier usage (EC2, S3, RDS, Lambda) and overall cost in real-time.
- Integrated AWS Cost Explorer API and Boto3 to fetch and analyze hourly usage and spending data.
- Built a CI/CD pipeline with GitHub Actions to run monitoring jobs hourly and generate daily reports (JSON & CSV).
- Implemented real-time alerting to Discord when usage thresholds are exceeded, preventing surprise bills.
- Published a live dashboard for report viewing and open-sourced the code for community Work Experience.

## Experience

### DevOps Engineer Intern— WebArclight, Remote, India

Dec 2025 – Present

- Deploying containerized dashboard applications on AWS EC2 using Docker, Docker Compose, and Linux administration.
- Built Nginx reverse proxy routing to host multiple frontend services under a single public endpoint.
- Implementing CI/CD automation using GitHub Actions to streamline build, test, and deployment workflows.
- Supporting backend/API integration, environment configuration, and production monitoring/issue resolution.
- Participate in monitoring, troubleshooting, and optimizing system and application performance across cloud environments

## Education

### Bachelor of Technology – Computer Science and Engineering

CGPA: 7.2

- University of Engineering & Management, Jaipur, India

### Higher Secondary Education (Intermediate)

75%

- Saraswati Vidya Mandir, Sinidih (CBSE)

### Secondary Education (Matriculation)

75%

- Saraswati Vidya Mandir, Sinidih (CBSE)

## 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,