

# SOHIT SAHU

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## PROFESSIONAL SUMMARY

Master of Computer Application graduate focused on Cloud and DevOps Engineering. Driven to build highly reliable, automated systems that accelerate development. Demonstrated expertise through complex projects in CI/CD pipeline orchestration (Jenkins), container management (Docker, Kubernetes), and modern GitOps implementation (Argo CD). Eager to apply systems-level thinking to enhance production reliability and automate the software delivery lifecycle at scale.

## EDUCATION

**Master of Computer Application**  
Bundelkhand University

June 2023 – July 2025  
Jhansi U.P, India

**Bachelor Of Computer Application (Hons.)**  
Bundelkhand University

August 2020 – June 2023  
Jhansi U.P, India

## SKILLS

**DevOps & CI/CD:** Jenkins, Docker, Kubernetes, Argo CD, Terraform, Ansible, Git, GitHub, Bash Scripting, Linux  
**Cloud Technologies:** AWS (EC2, S3, VPC, Lambda, EKS, IAM, Application Load Balancer, EventBridge, Auto Scaling, NACLs, Bastion Host)

**Languages:** Java, Javascript, Python, SQL

**Web Stack:** Node.js, Express.js, React.js, Restful API, MongoDB

**Developer Tools:** VS Code, Postman, SonarQube, Maven, Boto3

## PROJECTS

### End-to-End CI/CD Implementation — Jenkins & Kubernetes

- Orchestrated an end-to-end CI/CD pipeline in **Jenkins**, automating the full software delivery lifecycle from code commit (**GitHub**) to production deployment (**Kubernetes**).
- Engineered the Continuous Integration (CI) stage to automatically build Java applications with **Maven**, enforce code quality standards using **SonarQube**, and containerize the application with **Docker**.
- Implemented a GitOps-based Continuous Deployment (CD) workflow by pushing versioned Docker images to **Docker Hub** and using **Argo CD** to automatically sync and deploy new application versions to a **Kubernetes** cluster.

### Scalable Game Deployment on Serverless Kubernetes — AWS EKS

- Architected and deployed a highly available, scalable application on **AWS EKS** using **Fargate**, which automated worker node provisioning and eliminated server management overhead.
- Automated external access and load balancing by installing the **AWS Load Balancer Controller** via **Helm**, which dynamically provisioned an **Application Load Balancer (ALB)** based on a Kubernetes **Ingress** manifest.
- Enhanced security and resource isolation by creating a dedicated **EKS Fargate Profile** for the application namespace, ensuring all pods were automatically scheduled onto isolated, serverless compute.

### Automated AWS Cost Optimization for EBS

- Engineered a serverless cost-optimization solution using **AWS Lambda** and **Python (Boto3)** to automatically scan for and delete orphaned EBS snapshots, reducing monthly storage costs by an estimated 35-40%.
- Developed the core logic to cross-reference all account-owned snapshots against active **EC2** instances and attached **EBS** volumes, gracefully handling `VolumeNotFound` exceptions to ensure no active data was lost.
- Automated the entire cleanup process for continuous, multi-region governance by triggering the Lambda with **Amazon EventBridge** and securing it with a least-privilege **IAM Role** scoped for snapshot description and deletion.

## CERTIFICATES

- AWS Certified Cloud Practitioner
- AWS Networking Basics