

Alok Pandey

JUNIOR DEVOPS ENGINEER

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Summary

DevOps-focused BCA graduate with hands-on experience in CI/CD automation, cloud infrastructure management, containerization, and Infrastructure as Code (IaC). Skilled in designing deployment pipelines using Jenkins and GitHub Actions, provisioning scalable AWS infrastructure with Terraform, and managing containerized workloads using Docker and Kubernetes. Strong understanding of Linux systems, monitoring, deployment automation, and cloud-native practices with a focus on reliability, scalability, and operational efficiency.

Education

Bachelor of Computer Applications (BCA)

Maulana Mazharul Haque Arabic & Persian University

Expected Graduation: Sept 2026

Intermediate – Computer Science

Chintamani Inter College

2023 Completed with a focus on Computer Science, achieving a GPA of 9.4/10

Skills

Cloud Platforms: AWS (EC2, S3, IAM, VPC, Auto Scaling, Load Balancer, CloudWatch)

CI/CD & Automation: Jenkins, GitHub Actions, Git, GitLab, Terraform, Ansible

Containers & Orchestration: Docker, Kubernetes, Docker Hub

Monitoring & Observability: Prometheus, Grafana, CloudWatch

Linux & Scripting: Linux (Ubuntu/CentOS), Bash Scripting, Cron Jobs, Process & Service Management

Web Servers & Deployment: Nginx, Apache, Reverse Proxy, Linux Server Deployment

Networking & Security: TCP/IP, DNS, SSH, Subnetting, Firewall, IAM, Security Groups **Programming Languages:** Python, Java, C#

Experience

DevOps Intern

Springer Capital • Chicago Metropolitan Area (Remote)

01/2026 - 06/2026

- Engineered and optimized CI/CD pipelines using Jenkins and GitHub Actions to automate build, testing, and deployment workflows, accelerating release cycles and improving deployment reliability.
- Architected and managed secure AWS cloud infrastructure leveraging EC2, S3, IAM, and VPC services to support scalable, fault-tolerant, and highly available application environments.
- Implemented Infrastructure as Code (IaC) solutions using Terraform to automate infrastructure provisioning, enforce configuration consistency, and streamline environment management.
- Containerized and deployed application workloads using Docker, enabling consistent runtime environments and improving deployment portability across development and production systems.
- Collaborated closely with development and operations teams to troubleshoot infrastructure bottlenecks, resolve deployment failures, and enhance overall system stability and performance.
- Applied DevOps best practices including automation, infrastructure monitoring, version control, and continuous delivery methodologies within agile development workflows.
- Optimized deployment pipelines and cloud resource utilization to improve operational efficiency, reduce manual intervention, and strengthen deployment scalability.

Project

1. Automated CI/CD Pipeline & Web Server Orchestration

Built CI/CD pipeline (Jenkins, Git, Docker) to deploy apps on AWS EC2 | Configured Nginx reverse proxy for traffic, security, scalability | Automated deployments via commit triggers

<https://github.com/aalok-akarsh/automated-cicd-pipeline-web-server-orchestration>

2. AWS Infrastructure Automation (IaC)

Provisioned AWS infra (VPC, EC2, S3, IAM) using Terraform | Modular configs with full lifecycle (init, plan, apply) | Ensured consistency, eliminated configuration drift

<https://github.com/aalok-akarsh/aws-infrastructure-automation-iac>

3. Containerized Orchestration with Kubernetes

Containerized apps using Docker, optimized images | Deployed on Kubernetes (Minikube) using Pods,

Deployments, Services | Rolling updates for zero-downtime & high availability

<https://github.com/aalok-akarsh/containerized-orchestration-with-kubernetes>

4. Monitoring & Observability Suite

Deployed Prometheus & Grafana for monitoring | Integrated AWS CloudWatch with alerts | Log analysis for performance optimization & troubleshooting

<https://github.com/aalok-akarsh/monitoring-observability-suite>

Languages

English, Hindi

- AWS Solutions Architect Associate** (*Training – Udemy*)
- Advanced Diploma in Computer Application**, Gyanoday Institute, Varanasi, UP