# Asad Bashir

Aspiring DevOps Engineer

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Portfolio

## PROFILE

Aspiring DevOps Engineer with hands-on experience in Linux system administration, AWS EC2, Infrastructure as Code (Ansible), containerization with Docker, Kubernetes basics, and CI/CD automation using Jenkins. Skilled in deployment automation, monitoring fundamentals, version control, build workflows, and cloud-native development. Strong understanding of SDLC, Agile/Scrum practices, networking concepts, and troubleshooting. Seeking an entry-level DevOps role to automate deployments, optimize cloud infrastructure, and support continuous delivery pipelines

## Core Competencies

**DevOps & Cloud:** Linux (CentOS, Ubuntu), AWS EC2, Infrastructure as Code (Ansible), Docker, Docker Compose, Kubernetes
**CI/CD & Automation:** Jenkins Pipelines, Git Webhooks, Shared Libraries, Deployment Automation, Build Automation
**Configuration & Scripting:** Bash/Shell, Cron Jobs, YAML, JSON
**Version Control:** Git, GitHub
**Networking & AWS:** VPC (Public/Private Subnets), Route Tables, Internet Gateway, NAT Gateway, Security Groups, Application Load Balancer (ALB), Auto Scaling Groups
**Monitoring & Logging:** (Basics) Prometheus, Grafana, CloudWatch
**Development Tools:** Node.js, Express, React, MongoDB (MERN stack)

## Professional Experience

**Github**

- Managed Linux user accounts, permissions, and secure server access using SSH and best practices.
- Automated multi-server provisioning and configuration using Ansible playbooks and roles (IaC).
- Installed and configured Apache, MySQL/MariaDB, FTP, and NFS on AWS EC2 cloud infrastructure.
- Implemented system monitoring routines, backups, performance tuning, and log analysis.
- Built Docker images and deployed multi-container applications with Docker Compose.
- Practiced Kubernetes deployments, services, secrets, and workload management.
- Designed and configured AWS VPC architecture with public and private subnets, route tables, and security groups following best practices.
- Implemented Application Load Balancer and Auto Scaling Groups to ensure high availability, fault tolerance, and scalability of EC2-based applications.

### CI/CD & Automation Experience

- Implemented end-to-end CI/CD pipelines using Jenkins for multi-tier applications.
- Designed and deployed complete CI/CD pipelines using Jenkins for multi-tier applications.
- Configured Git webhooks for Continuous Integration on commit.
- Built reusable Jenkins Shared Libraries to standardize pipeline logic.
- Developed pipeline stages: **code checkout → unit tests → integration tests → build → Docker image → push to Docker Hub → deployment.**
- Created optimized Dockerfiles and tested multi-container builds locally.
- Executed automated Continuous Deployment with Docker Compose and containerized services.

## PROJECTS (MERN STACK)

- CRUD Application using MongoDB, Express, React, Node.js.
- Dynamic Website using Express, Handlebars, and API integrations.
- URL Shortener & QR Generator using MERN stack.

**FINAL YEAR PROJECT -**The Ultimate Platform for Furnished Home Rentals (MERN Stack) REPO LINK

- Full MERN platform with advanced search, filtering, Stripe payments, and real-time availability.
- Integrated AI assistant for recommendations.
- Built admin panel for listings, reservations, and user management.

## SKILLS

**Cloud Computing:** AWS EC2, VPC, Subnets, Load Balancer, Auto Scaling, Security Groups, Cloud Deployment
**DevOps:** Git/GitHub, Ansible (Playbooks, Roles, Vault), Docker, Kubernetes, CI/CD Concepts
**Operating Systems:** Linux (CentOS, Ubuntu),Window
**Scripting Languages:** Bash/Shell Scripting, Task Automation, Cron Jobs
**Frontend:** HTML, CSS, JavaScript, React; Responsive & Interactive UI Development
**Backend:** Node.js, Express.js, MongoDB; REST APIs, Database Integration, Server-Side Development
**Soft Skills:** Troubleshooting, Problem-Solving, Teamwork, Communication, Time Management

## EDUCATION

**BS COMPUTER SCIENCE – BSCS** **2021-2025**

**FSC –** computer science (81%) **2019-2021**

## Achievements

- Automated server setup across multiple hosts with Ansible, reducing manual deployment time.
- Containerized applications for consistent development and production environments using Docker.
- Prepared Kubernetes configurations for managing scalable applications.
- Successfully deployed multiple MERN stack applications on cloud infrastructure
- Implemented complete CI/CD pipelines using Jenkins with automated testing, container builds, Docker Hub pushes, and deployments triggered on every code commit