Jahangir Alam - Devops Engineer

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Profile

DevOps Engineer with solid expertise in Linux system administration, Windows Server, VMware ESXi, and cloud platforms such as Azure and AWS. Proficient in automating CI/CD pipelines using **GitHub Actions** and **Azure DevOps**, with a strong emphasis on infrastructure as code, system reliability, and cloud scalability. Experienced in supporting **AI/ML workflows**, including model deployment, monitoring, and GPU-accelerated environments. Focused on streamlining operations while maintaining performance, security, and efficiency across infrastructure.

Skills

- **Version Control:** Git, GitLab

- **Programming Languages:** Python, Bash

- **DevOps Tools:** Azure DevOps, GitHub Actions, GitLab CI/CD

- **Cloud Platforms:** AWS, Azure, GCP

- **Virtualization:** Docker, Singularity, VMware ESXi, Hyper-V

- **Configuration / Automation:** Ansible, Terraform

- **Monitoring & Logging:** Prometheus, Grafana, ELK Stack

- **Operating Systems:** Linux, Windows

- **Mail Servers:** Postfix, Dovecot

- **Web Servers:** Apache, Nginx, Litespeed

- **Cybersecurity:** McAfee Security Center, Kaspersky Security Center

- **Networking:** TCP/IP, DNS, Load Balancing

- **Active Directory:** User authentication, Group Policy management, LDAP

- **DHCP:** Setup, management, and troubleshooting of Dynamic Host Configuration Protocol

- **Certificate Authority (CA) Server:** SSL/TLS certificate management

- **Big Data:** Apache Spark Cluster for HPC

- **ML Ops:** MLflow deployment, local LLM deployment with GPU acceleration

- **LLM Tools & Frameworks:** LLaMA.cpp, OpenWebUI, Hugging Face Transformers

- **GPU Acceleration:** NVIDIA CUDA Toolkit, cuDNN

Experience

National Science & Technology Park   Islamabad, Pakistan
DevOps Engineer   Mar 2023 – Present

- Designed and maintained secure cloud infrastructure across Azure and AWS

- Automated CI/CD pipelines with Azure DevOps and GitHub Actions

- Managed infrastructure as code using Terraform and Ansible

- Deployed and optimized machine learning/LLM workflows in GPU environments

- Integrated MLflow for model tracking and end-to-end MLOps support
- Focused on automation, configuration management, and cloud-native practices

Skills: IaC, Azure, AWS, GitHub Actions, Terraform, Ansible, MLflow, LLM Deployment, NVIDIA CUDA, Docker, Grafana, Linux

System Administrator   Jul 2022 – Mar 2023

- Managed virtualization with VMware vSphere and Kubernetes
- Enhanced security with firewall policies and SSL/TLS configurations
- Supported AWS and Azure cloud infrastructure
- Administered Linux and Windows servers across environments
- Automated CI/CD using GitLab CI and managed version control workflows
- Provided support for productivity tools (Office 365, Google Workspace)
- Maintained internal systems (Zoho, Redmine, Jira)

Skills: VMware, Kubernetes, GitLab CI, TLS, Docker, Linux, Azure, Prometheus, Office 365, Google Workspace, Jira

Pakistan Telecommunication Company Ltd. (PTCL)   Pakistan
System Administrator   Feb 2019 – Jul 2022

- Managed IT infrastructure and system administration across VMware ESXi, Linux (Ubuntu, CentOS), and Windows Server environments
- Administered core Windows Server services including Active Directory, DHCP, and Group Policy
- Automated routine administrative tasks using Bash scripting to enhance system efficiency
- Designed, deployed, and maintained VMware vSphere infrastructure including ESXi hosts, vCenter Server, upgrades, and migrations
- Installed, configured, and maintained Windows Server environments for development and production use
- Deployed and managed Docker containers to support isolated application environments
- Implemented monitoring and alerting with Prometheus and Grafana for system performance and troubleshooting
- Managed version control and code review processes using Git and GitLab
- Supported internal tools and platforms including Redmine and IIS

Skills: VMware ESXi, Linux (Ubuntu, CentOS), Windows Server, Docker, Git, Bash Scripting, IIS, Redmine, Grafana, Prometheus, AWS

Pakistan Telecommunication Company Ltd. (PTCL)   Pakistan
IT Support Technician   Dec 2017 – Feb 2019

- Installed and configured Windows operating systems on end-user machines, including domain setup and user profile integration
- Ensured synchronization of antivirus software with the central server to enhance endpoint security
- Performed system updates and patch management to maintain secure and stable environments
- Installed and supported Linux distributions (e.g., Ubuntu) for development and production tasks
- Diagnosed and resolved hardware and software issues to minimize user downtime
- Troubleshoot network connectivity issues including LAN, Wi-Fi, and DNS configurations for continuous access

Skills: Windows OS, Linux (Ubuntu), Domain Configuration, Antivirus Management, Patch Management, Hardware Troubleshooting, Network Support (LAN/Wi-Fi/DNS)

Education

- **BS Computer Science**
  Virtual University of Pakistan, Lahore   *2013–2017*

- **Diploma of Associate Engineer - Instrumentation**
  Swedish Pakistani Institute of Technology, Gujrat   *2006–2009*

Certifications

- **AWS Certified Solutions Architect – Associate**   AWS

- **Microsoft Certified: Azure Administrator Associate**   Microsoft

- **Introduction to Git and GitHub**   Coursera / Google

- **Integrating AWS with the SDK**   Coursera

- **Fundamentals of Red Hat Enterprise Linux**   Coursera

- **Red Hat System Administration and IT Infrastructure Services**   Coursera / Google

- **Crash Course on Python**   Coursera / Google

Projects

Deployment of LLM Infrastructure on HPC with Singularity
Deployed a GPU-accelerated LLM backend using `llama.cpp` in a Singularity container for efficient inference of GGUF-format models on HPC nodes. Configured a frontend interface using a separate Singularity container for `OpenWebUI`, enabling interactive LLM usage. Ensured secure, modular deployment and optimal GPU utilization for scalable local language model serving.
Technologies: Singularity, HPC, NVIDIA CUDA, LLMs, Linux, Shell Scripting

Local PyPI Repository Deployment
Deployed a local PyPI repository within an isolated network using a Dockerized Nginx server. Maintained a local repository of Python libraries, built binary wheel packages, and automated environment setup for streamlined development. Integrated GitLab CI/CD for automated builds and deployments.
Technologies: Docker, Nginx, Python, Wheel, GitLab CI/CD

Cloud Infrastructure as Code
Designed and implemented Infrastructure as Code (IaC) with Terraform to provision AWS resources. Automated EC2, RDS, and S3 deployments while enforcing IAM-based security best practices.
Technologies: AWS, Terraform, Python (AWS CLI)

Monitoring and Logging System
Deployed a full-stack monitoring and logging solution for a microservices architecture. Configured Prometheus for monitoring and alerting, with visualizations through Grafana and Kibana dashboards.
Technologies: Prometheus, Grafana, Docker

Containerized Application Deployment
Containerized multiple applications including Redmine, GitLab, and Nagios using Docker Compose, enabling simplified orchestration and scalable deployment.
Technologies: Docker, Docker Compose

Apache Spark Installation and Configuration
Set up Apache Spark for a machine learning lab to handle distributed data processing. Integrated Spark MLlib and optimized the system for performance on large datasets.
Technologies: Apache Spark, Hadoop, Ubuntu, PySpark, Spark MLlib

GitLab CI/CD Pipeline for GCP VM Management and Deployment
Developed a secure CI/CD pipeline to automate GCP VM lifecycle operations (start, stop, restart) with role-based access controls. Automated Docker-based application deployments, reducing manual steps and improving reliability.
Technologies: GitLab CI/CD, GCP, Docker