

Muhammad Awais

Senior DevOps Engineer | Cloud & Infrastructure Engineering

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PROFESSIONAL SUMMARY

DevOps and MLOps Engineer with hands-on experience designing and managing production-grade infrastructure across cloud, containers, and CI/CD pipelines. Skilled in Kubernetes cluster management, Docker containerization, Infrastructure as Code (Terraform), and automation using Python and Bash. Experienced with Linux server administration, networking fundamentals, monitoring (Grafana), and basic database operations (PostgreSQL, MySQL). AZ-400 certified in DevOps solution design, with a track record of building scalable systems, reducing deployment overhead, and integrating AI-driven automation into operational workflows. Comfortable working across AWS and Azure, with working knowledge of GCP.

TECHNICAL SKILLS

Cloud Platforms: AWS, Microsoft Azure (working knowledge of GCP)

Containers & Orchestration: Kubernetes (cluster migration, scaling, ingress/networking basics), Docker

CI/CD & Automation: CI/CD pipeline design, automated ML/deployment workflows, GitOps concepts

Infrastructure as Code: Terraform (foundational, hands-on)

Scripting & Programming: Python, Bash/Shell scripting

Linux & Systems: Linux server administration, process/log/service management, troubleshooting

Networking: TCP/IP, DNS, HTTP/HTTPS, load balancers, firewalls, VPNs (foundational)

Databases: PostgreSQL, MySQL (working knowledge), MongoDB

Monitoring & Observability: Grafana (basic), custom model/accuracy monitoring dashboards

Security: Secrets management basics, access control, security hardening fundamentals

MLOps Tooling: MLflow (model versioning & tracking), AI Agents, OCR, Computer Vision preprocessing

PROFESSIONAL EXPERIENCE

Machine Learning 1 — Lahore, Pakistan

MLOps Engineer | 2022 – Present

- Designed and engineered a scalable system architecture from the ground up using Python and MongoDB, supporting production ML workloads.
- Led migration of backend services to Kubernetes, building highly available, fault-tolerant clusters and managing container orchestration, scaling, and workload resilience.
- Implemented end-to-end CI/CD pipelines to automate build, test, and deployment workflows, reducing manual deployment overhead and release times.
- Administered Linux-based production servers: managed services, logs, permissions, and system troubleshooting to maintain uptime and reliability.
- Wrote Bash and Python automation scripts for infrastructure tasks, deployment routines, and operational monitoring.
- Integrated MLflow into the ML lifecycle for model versioning, tracking, and registry management.
- Built and deployed a real-time Model Accuracy Monitoring Dashboard (Grafana-based) to track model drift and production performance.
- Applied foundational Infrastructure as Code (Terraform) and security hardening practices while provisioning and configuring cloud/on-prem resources.
- Integrated AI Agents into operational pipelines to automate complex, repetitive engineering tasks and improve throughput.

Python Developer | 2021 – 2022

- Developed core Python scripts and applications to execute, test, and integrate open-source machine learning models.
- Applied Computer Vision techniques to preprocess image data, improving baseline accuracy of downstream models.
- Engineered complex Regular Expressions to parse, extract, and clean data from OCR outputs.

- Worked with relational databases (PostgreSQL, MySQL) as a developer, writing and optimizing queries for application features.

EDUCATION

- Bachelor of Science in Computer Science (BSCS) — Virtual University of Pakistan

CERTIFICATIONS & TRAINING

- AZ-400: Designing and Implementing Microsoft DevOps Solutions
- DevOps Professional Training — Corvit Systems, Lahore