

Ahmed Swilam

Junior DevOps Engineer

Egypt

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PROFESSIONAL SUMMARY

Junior DevOps Engineer with hands-on experience building and automating containerized applications, CI/CD pipelines, and Linux-based environments. Skilled in Docker, Kubernetes, Git, Bash scripting, and AWS fundamentals, with practical experience designing deployment workflows and infrastructure automation.

Focused on building production-like systems that simulate real-world DevOps practices, including container orchestration, CI/CD automation, infrastructure as code, and system monitoring.

TECHNICAL SKILLS

Cloud & Infrastructure: AWS (EC2, IAM, VPC), Infrastructure fundamentals

DevOps & Automation: Docker, Kubernetes, Git, GitHub Actions, GitLab CI/CD, Bash, YAML

Infrastructure as Code: Terraform, Ansible

System Administration: Linux (Ubuntu, CentOS), SSH, Cron, Permissions, Process Management

Monitoring & Logging: System monitoring, logging

Security: Trivy (image scanning)

Networking: TCP/IP, DNS

PROJECTS

1. Container Orchestration with Kubernetes

Technologies: Kubernetes, Docker, CI/CD

- Deployed a containerized application on a Kubernetes cluster (Minikube multi-node)
 - Created and managed Deployments, Services, and Ingress for application exposure
 - Implemented rolling updates and scaling for application reliability
 - Configured internal service communication and networking between pods
 - Troubleshoot cluster and application issues using `kubectl logs`, `describe`, and debugging techniques
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2. Containerized Multi-Service Application with CI/CD & Security

Technologies: Docker, GitHub Actions / GitLab CI, Trivy, Linux

- Designed and built a multi-container application (frontend + backend architecture)
 - Created Dockerfiles and managed container networking
 - Implemented CI/CD pipeline with build, test, and deployment stages
 - Built Docker images and pushed them to a container registry
 - Automated deployment workflow after code commits
 - Integrated **Trivy** to scan container images for vulnerabilities before deployment
 - Improved deployment consistency and reduced manual setup effort
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3. Infrastructure Provisioning with Terraform

Technologies: Terraform, AWS

- Wrote Terraform configurations to provision cloud infrastructure (EC2, networking basics)
 - Applied Infrastructure as Code principles for reproducible environments
 - Managed infrastructure lifecycle using `init`, `plan`, `apply`, and `destroy`
 - Automated environment setup, reducing manual provisioning effort
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4. Linux Automation & System Administration

Technologies: Linux, Bash, SSH

- Built and managed Linux environments simulating real server operations
 - Automated administrative tasks using Bash scripts (user management, backups, monitoring)
 - Implemented secure access control using permissions and SSH configurations
 - Reduced repetitive manual tasks through automation
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5. Linux Process Monitoring & Troubleshooting

Technologies: Linux, Bash

- Simulated production-like server behavior with process management and monitoring
 - Managed process priorities using `nice` and `renice`
 - Implemented logging and output redirection for debugging and tracking
 - Performed system troubleshooting and performance analysis
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EXPERIENCE

DevOps Trainee — Digilians Nano Degree

Remote | 2026 (4 months)

- Built and managed Linux-based environments for system administration and automation
 - Developed Bash scripts to automate operational tasks and improve efficiency
 - Created and managed Docker containers for application environments
 - Implemented CI/CD pipelines to automate build and deployment workflows
 - Worked with AWS services including EC2 and IAM
 - Applied monitoring and logging practices for system visibility and troubleshooting
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EDUCATION

Bachelor of Computer Science — 2025

CERTIFICATIONS

- AWS Certified Cloud Practitioner — *In Progress*
 - Linux Essentials — *In Progress*
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ADDITIONAL

- Fluent English
- Strong problem-solving and troubleshooting mindset
- Focused on building real-world DevOps systems and continuous learning