Ehab Ashraf Muhammed

DevOps Engineer

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SUMMARY

Motivated DevOps Engineer with hands-on experience in AWS and VMware cloud platforms, CI/CD pipeline automation, and IaC implementation. Successfully transitioned from civil engineering, bringing strong project management discipline, systematic problem-solving approach, and adherence to industry standards to modern DevOps practices. Ability to streamline deployment processes, eliminate manual configurations, and enhance system reliability through strategic automation strategies.

TECHNICAL SKILLS

CI/CD & DevOps: Jenkins, GitHub Actions, GitLab CI/CD, Git, GitOps, Agile Methodologies.

Cloud Platforms: Amazon Web Services (AWS) - EC2, S3, Lambda, ECS, RDS, VPC, IAM; VMware vSphere, ESXi.

Containerization & Orchestration: Docker, Kubernetes, Helm, Container Registry, Microservices Architecture.

Infrastructure as Code (IaC): Terraform, AWS CloudFormation, Ansible Automation Platform, YAML.

Programming & Scripting: Python, Bash Scripting, Shell Scripting, C Programming basics.

Monitoring & Observability: Prometheus, Grafana, AWS CloudWatch, Log Analytics, Performance Monitoring, Alerting.

Linux Environment: RHEL Administration, Ubuntu Server, System Configuration, and Troubleshooting.

Windows Environment: Windows Server Administration, Active Directory, Group Policy, DNS/DHCP Configuration, IIS.

Networking: CCNA-level Knowledge, TCP/IP, DNS, DHCP, Security Groups, NACL, Subnetting.

Databases: MySQL, MongoDB, SQL Database Design, NoSQL Implementation, ERD Design, Performance Optimization.

Backup & Recovery: VEEAM Backup & Replication, Data Protection, Disaster Recovery Planning, RPO, RTO.

Webservers Configurations: Apache webserver, Nginx Proxy.

ITSM & Service Management: ITIL v4 Foundation concepts, Service Value Chain, Information Security.

Soft Skills: Problem Solving, Team Collaboration, Adaptability, Continuous Learning, Technical Documentation.

CERTIFICATIONS AND COURSES

- AWS Certified Solutions Architect Associate (SAA-C03)
- AWS Certified Cloud Practitioner (CLF-C01)
- VMware Certified Technical Associate Data Center Virtualization (VCTA-DCV)
- AWS Academy Cloud Foundations and Architecting Bootcamp 140+ hours (AWS Academy)
- Cisco Networking Essentials (Cisco)
- CS50: Introduction to Computer Science (Harvard X)

EXPERIENCE

${\bf DevOps\ Trainee-Digital\ Egyptian\ Pioneers\ Initiative\ (DEPI)}$

June 2025 - Present

- Participating in advanced DevOps training focused on modern application delivery and automation methodologies.
- Building end-to-end CI/CD pipelines using industry-standard DevOps tools including Jenkins, Docker, and Kubernetes.
- Implementing Infrastructure as Code best practices across the complete software development lifecycle.
- Applying hands-on experience with cloud-native technologies, containerization strategies, and monitoring solutions.
- Developing automated testing and deployment strategies to improve code quality and reduce time-to-market.
- Collaborating with team members to optimize containerized microservices and implement GitOps workflows.

AI Data Quality Specialist - ByteDance Inc. (via Appen.AI)

- January 2024 Present
- Recruited as an outsourced AI Data Quality Specialist working directly with ByteDance's AI team.
- Enhancing training data quality for machine learning models and AI agents using techniques such as RLHF.
- Collaborating with international cross-functional teams to ensure high-quality AI model training datasets.
- Played a key role in the successful launch of a new search feature in the Saudi Arabian market and the new AI customer service agent, which both significantly improved user experience and engagement.

Cloud Infrastructure Trainee - VMware via Information Technology Institute (ITI)

August 2023 - November 2023

- Completed an intensive 3-month hands-on training program in cloud computing and VMware virtualization.
- Gained practical experience in virtualization, enterprise infrastructure management, and system administration.
- Developed expertise in VMware vSphere environment administration, configuration, and troubleshooting.
- Applied virtualization concepts to optimize resource utilization and system performance.

Construction Engineer - Jet for Construction and Contracting

July 2022 - August 2023

- Managed infrastructure, structural, finishing (interior and exterior), and landscaping works for the company's most critical project with a +100M EGP budget in 15th of May City.
- Ensured adherence to design specifications and engineering standards for the project.
- Oversaw the finishing processes for both interior and exterior aspects, conducting quality checks to guarantee that all materials and workmanship met company standards and client expectations.
- Coordinated landscaping efforts to enhance the aesthetic appeal of the project, working closely with landscaping teams to implement design elements that align with the overall vision of the development.

PROJECTS

Full-Stack CI/CD Pipeline Implementation on AWS 🔗

- Designed a complete CI/CD pipeline using Jenkins for automated containerized Node.js application deployment.
- Automated infrastructure provisioning on AWS using Terraform Infrastructure as Code.
- Implemented secure configuration management using Ansible with encrypted vault storage.
- Achieved improved deployment efficiency and system reliability through automation.
- Optimized AWS resource costs through automated infrastructure scaling and monitoring implementation.

Multi-Host Infrastructure Automation

- Automated deployment of MERN and LAMP stack applications across multiple host environments.
- Implemented Ansible roles, group variables, and vault encryption for secure infrastructure management.
- Created modular infrastructure management solutions following industry standards and best practices.
- Reduced manual configuration errors through comprehensive automation strategies.

EDUCATION

Bachelor of Engineering, Civil Department | Suez Canal University, Egypt | Grade: Very Good

LANGUAGES

Arabic: Native Proficiency | **English:** Fluent (Professional Working Proficiency) | **German:** Intermediate (B1 Level)