Ehab Ashraf Muhammed

DevOps Engineer

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SUMMARY

Passionate Cloud and DevOps Engineer with experience in AWS and VMware cloud platforms, infrastructure automation and CI/CD pipeline development. Demonstrated expertise in containerization, Infrastructure as Code, monitoring solutions, and system administration with a civil engineering background that provided me with a strong foundation in project management, technical documentation, adherence to industry standards, and clear communication with cross-functional teams.

TECHNICAL SKILLS

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

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

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

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

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

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

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

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

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

Webservers Configurations: Apache webserver, Nginx Proxy.

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

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 University)

EXPERIENCE

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 architecture 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.

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)