

Mohamed Magdy Abudeif Kotb

DevOps Engineer

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PROFESSIONAL SUMMARY

DevOps Engineer experienced in designing and automating cloud infrastructure using AWS, Kubernetes, and Infrastructure as Code (IaC). Skilled in CI/CD, observability, and GitOps to build scalable, secure, and cost-efficient systems. AWS Certified Solutions Architect – Associate and DevOps Instructor at NTI and ITI.

PROFESSIONAL EXPERIENCE

DevOps Engineer

08/2024 – present

Nagwa-Technology

Container Orchestration & GitOps

- Architected and maintained production EKS clusters ensuring 99.9%+ uptime for high-performance microservices.
- Optimized microservices deployment on AWS EKS by implementing Karpenter for intelligent autoscaling, improving resource efficiency and reducing infrastructure costs by up to 20%.
- Implemented GitOps workflows with ArgoCD, enabling version-controlled and automated deployments with rollback capabilities - Standardized deployments across environments using Helm charts and Kustomize overlays, reducing configuration drift.

Serverless Architecture & Cloud Automation

- Designed and deployed serverless architectures using Lambda, API Gateway, SQS, SNS, DynamoDB, and Aurora RDS for scalable event-driven workflows.
- Leveraged Model Context Protocol (MCP) for managing contextual data across distributed cloud systems.

Infrastructure as Code, Security & Observability

- Automated environment provisioning using Terraform for consistent, version-controlled infrastructure.
- Integrated SonarQube and Trivy into CI/CD pipelines for vulnerability scanning and code quality assurance.
- Managed DNS, CDN, and security with Cloudflare, implementing R2 for cost-effective object storage.
- Enhanced observability using Prometheus, Grafana, and AWS CloudWatch for proactive monitoring and performance tuning.

DevOps Engineer Intern | IT-Visionary Company

06/2024 – 07/2024

- Built and maintained CI/CD pipelines using Jenkins for automated deployments.
- Worked with Docker, Kubernetes, and AWS Cloud to automate application deployment and monitoring.
- Gained hands-on experience in infrastructure as code and cloud computing.

EDUCATION

DevOps & Automation Diploma (4-Month Program)

02/2024 – 05/2024

National Telecommunication Institute (NTI), MCIT

Bachelor's Degree in Communications & Electronics Engineering

09/2017 – 07/2022

Alexandria University - Graduated with Very Good with Honors

TECHNICAL SKILLS

- **DevOps & Cloud:** Linux I and II, Docker, Kubernetes, Helm, Kustomize, ArgoCD, Terraform, Ansible, Jenkins, Cloudflare, AWS (EKS, ECS, EC2, Lambda, RDS, DynamoDB, S3, API Gateway, Bedrock)
- **Observability & Monitoring:** Prometheus, Grafana, AWS CloudWatch, SonarQube, Trivy.
- **Security:** AWS WAF, Cloudflare Security, IAM Policies, Encryption.
- **Scripting & Automation:** Bash, Python.
- **Version Control:** Git, GitHub, GitLab, Azure DevOps.
- **Networking:** CCNA & CCNP Fundamentals.

CERTIFICATES

AWS Certified Solutions Architect – Associate 

AWS Certified Cloud Practitioner 

LANGUAGES

English: Excellent

Arabic: Native