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Education Qualifications

2016- **Master's Degree in Network Security field Excellent**

2019 University: Fayoum University in Cairo.

- Optimized Security of Data Aggregation Technique using
a Secure LEACH Routing Protocol in Wireless Sensor Networks.

GPA: 3.56

2009- Bachelor in Computer Engineering

2014 University: Higher Institute of Engineering, 6th of October.

Graduation project: Student Attendance System.

Project Grade: Excellent.

GPA: 3.93

Skills

- **Containerization:** Docker, Kubernetes, helm
- **CI/CD and Automation:** GitHub Action, Gitlab, Jenkins, ArgoCD
- **Cloud:** Amazon (AWS), Alibaba, Google cloud (GCP)
- **Monitoring:** Prometheus, Grafana, Splunk
- **Administration:** Linux
- **Version control:** Git
- **Configuration Management:** Ansible
- **IaC:** Terraform
- **Scripting languages:** Python, Bash script
- **Network:** CCNA

Work Experience

❖ **DevOps Engineer - Freelancer-** Human Resources Development Fund - HRDF
- KSA 01/10/2024- 30/5/2025

Tools: Terraform, Alibaba Cloud, Git, Infrastructure-as-Code (IaC), ElasticSearch

- **Migrated Alibaba Cloud Infrastructure to Terraform for IaC**

- Implementation:**
- a) Conducted a comprehensive assessment of existing Alibaba Cloud resources, including VPCs, VSwitches, ECS instances, and security groups, to prepare for migration.
 - b) Successfully imported Alibaba Cloud resources into Terraform state files using `terraform import`, ensuring no resource drift.
 - c) Developed modular and reusable Terraform configuration files (`.tf`) to describe and manage infrastructure as code.
 - d) Validated configurations with `terraform plan`, resolved discrepancies, and ensured alignment with existing infrastructure.
 - e) Implemented version control for Terraform configurations, enabling efficient collaboration and change tracking through Git.
 - f) Documented the migration process and provided detailed guides for future infrastructure management.

- **Develop a Python Script for Service Manage Plus API Integration:** a) Create a Python script to interact with the Service Manage Plus API, making a GET request to fetch data from the API endpoint.

- b) Implement functionality to filter the retrieved data based on the "Approval Status" field, extracting records that meet specific criteria (e.g., "Approved"). Display the filtered data in a tabular format for clarity.

- c) Design, create, and deploy automation scripts, tools, or processes to enhance operational efficiency and minimize manual interventions.

- **Elasticsearch: Kubernetes Log Collection and Forwarding:**

- a) Set up Fluentd to collect and forward Kubernetes logs to Elasticsearch for centralized storage and analysis.

- **Kibana: Data Visualization and Monitoring:**

- a) Utilize Kibana to visualize and analyze data stored in Elasticsearch. Design and build dashboards to monitor key metrics and provide actionable insights.

- **Collaborate on Design and Architecture Discussions:** Work with stakeholders and team members to review, refine, and finalize automation designs and implementation strategies.

★ **01/09/2023 – 30/04/2024 - Oranoc**

Tools: Docker- kubernetes- AWS- Terraform- Git- Github action(CI/CD)

- Maintain and manage fully automated CI/CD pipelines by using **GitHub action**.
- Manage, improve and monitor our infrastructure cloud on **aws**.
- Automated daily and scheduled tasks using **bash script**.

- Manage our stack using Kubernetes.
- Created custom container images, tagging and push images.
- Worked on installation Docker, kubernetes, Ansible on Ec2 instance on aws.
- Dockerized application by creating docker images from docker file.
- Create infrastructure as a code on aws by using **terraform**.
- Design & implement high availability in the customer's environment. ● **Docker** and **Kubernetes** setup, configuration of the whole k8s environment and maintaining a docker environment using k8s cluster.
- Troubleshooting, recognizing and resolving pod-level/cluster-level issues. ● Provisioning and creating EC2, VPC, Security group, Elastic IP, load balance with **Terraform**.
- **AWS Cloud services**: EC2, S3,VPC, IAM, Security group, ECR, Elastic IP.
- Devops Automation using **Github Action CI/CD**.

★ 01/03/2022 – 30/6/2022 – TechyTypes

Tools: Docker- Kubernetes- AWS- Terraform- CI/CD

- **Docker** and **Kubernetes** setup, configuration of the whole k8s environment and maintaining a docker environment using k8s cluster.
- Troubleshooting, recognizing and resolving pod-level/cluster-level issues. ● Provisioning and creating EC2, VPC, Security group, Elastic IP with **Terraform**.
- **AWS Cloud services**: EC2, S3,VPC, IAM, Security group, ECR, Elastic IP.
- Maintain and manage fully automated CI/CD pipelines by using GitHub action.

❖ Career Break

10/01/2021 – 01/01/2022

Travel - Madinah - Saudi Arabia

- Studying Devops tools (Docker, Kubernetes, terraform, git,github action, CI/CD, AWS)

❖ Teaching Assistant

01/09/2015 – 01/01/2021 – 6thOctober University

- I'm teaching various courses under its doctor supervision as but not limited the following:
 - C++ for beginners for 1st grade
 - Mathematics for 2nd grade.
 - MATLAB for 2nd grade.
 - CCNA course for 3rd grade.
 - Packet tracer for 3rd grade.
 - Computer electronics lab for 3rd grade.
 - Software engineering for 3rd grade.
 - Operating Systems for 4th grade.

✓ I was part of the IT team at college which is responsible for controlling all administrative activities.

✓ I was responsible for teaching at a related lab for the above said courses.

✓ I'm working on the quality of education and accreditation in the college.

✓ I'm responsible for preparing, reviewing and marking all quiz tests for said courses.

✓ Communicated clearly and effectively with staff and students, aiding positive working and learning environments in line with university policies.

❖ Technical Support

01/08/2014 -30/08/2015 – TE data

- Responsible for solving customer problems on the Network.

Certificates

- Cisco Certified Network Associate – NTI.
- Ethical Hacking - NTI.
- IP Addressing and Subnetting – Udemy.
- ISO 27001 – Network & Communication Security Management – Udemy. ● Python – Sololearn.
- AWS solution architect associate – Forage.

- Linux Essential – Udemy
- Containers, Kubernetes and OpenShift V2 – IBM. ● IT Academy: Cloud and Virtualization concepts - VMware.

Languages

- **Arabic** Native/Bilingual Proficiency
- **English** Professional Proficiency