Shaimaa Mahmoud ELsaadi

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Objective

Entry-level DevOps Engineer with a strong foundation in automation, infrastructure management, and CI/CD pipelines. Proficient in tools like Docker, Kubernetes, and Jenkins, with hands-on experience in building and maintaining scalable cloud infrastructure.

Education

Bachelor Degree, Faculty of Engineering, Cairo University.   2018 – 2023
  - Major: Electronics and Electrical Communication.
  - Grade: Good.
  - Graduation Project : Implementing an AUTOSAR COM stack.
      - Grade: Excellent.

Internship

DevOps Trainee, Egypt Digital Pioneers Initiative   05/2024 – 10/2024
- Completed a 159-hour structured training program on core DevOps skills, including prompt engineering and DevOps essentials.
- Gained hands-on experience in configuration management using Ansible and containerization using Docker, including advanced practices.
- Set up CI/CD pipelines with Jenkins and GitHub Actions and worked with Kubernetes for container orchestration.
- Acquired skills in monitoring systems with Prometheus for efficient resource tracking and alerting.
- Explored AWS Cloud fundamentals and cloud architecture design principles to optimize infrastructure.
- Learned infrastructure as code practices using Terraform and developed proficiency in setting resource dependencies.

Trainee, Avelabs 🔗   11/2023 – 12/2023
- Built code following C and Ansi C using GCCx86 and TI compiler for Tiva C target using Batch file and Make file to generate pre-processed, assembly, and executable files.
- Displayed information about symbols in the executable file.
- Achieved requirements and code coverage criteria of 100%.
- Knew what is the state machine and hierarchical state machine and how to design and implement them.
- Learned about MISRA code guidelines

Skills

Web Servers
  Apache | Nginx

Operating Systems
  Linux Administration| (Ubuntu, Red Hat)

Scripting
  Bash, Python

Containerization
  Docker,Kubernetes

Version Control
  Git, GitHub

Infrastructure-as-Code (IaC)
  Terraform

CI/CD Tools
  Jenkins, GitHub Actions

Cloud Platforms
  AWS

Programming Language
  C, Embedded C, C++, Python

Monitoring and Logging
  Prometheus, Grafana

Computer Networking & Security

Configuration Management
  Ansible

Projects

Deploying EKS Cluster and Microservices App with CI/CD 🔗   11/2024

Implemented a scalable CI/CD pipeline for deploying Flask-based microservices on Amazon EKS. Automated infrastructure provisioning and application deployment using Terraform, Kubernetes, and Jenkins. Key contributions included:

- Provisioned an EKS cluster with Terraform, including VPC and security configurations.
- Built Docker images and deployed Flask applications as Kubernetes pods.
- Automated build, test, and deployment workflows with Jenkins.
- Configured Kubernetes LoadBalancer Services for external traffic routing.

CI/CD Pipeline for Solar System App, DEPI final Project 🔗   10/2024

- Built an automated CI/CD pipeline using GitHub, Jenkins, Docker, Terraform, and Ansible.
- Deployed the app on AWS cloud platform with Docker images stored in Docker Hub.
- Automated infrastructure provisioning with Terraform and managed configurations using Ansible.
- Integrated Amazon DocumentDB as the database and used Slack for pipeline notifications.

Automate CI/CD Pipeline for Prometheus and Grafana 🔗   09/2024

- Created an EC2 instance at AWS using Terraform.
- Installed Prometheus and Grafana using Ansible on EC2 instance .
- Automated with GitHub Actions

Implementing an AUTOSAR COM stack, Graduation Project 🔗   09/2022 – 07/2023

- Sponsors: **Brightskies**
- Implemented a CAN communication stack using ARM Cortex M the TM4CMicro-controllers with its different software modules:
    - AUTOSAR COM Module (Services Layer).
    - PDU Router Module (Services layer).
    - CAN Interface Module (ECU Abstraction Layer).
    - CAN Driver Module (MCAL Layer).

Courses

Programming for Everybody, Coursera

Database Fundamentals, Mahara-Tech 🔗

AWS Academy Cloud Foundations, AWS Academy

Extracurricular Activities

Ahla Shabaab Team, Volunteer   2021 – present

Resala charity, volunteer   2020 – present

MUSLIM FAMILY Charity, volunteer   03/2019 – present

Google Developer Student Clubs, Content Writer   2022 – 2023