Omar Aboelmagd

Bonn, Germany
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DevOps Engineer

GitHub: neatphar
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EDUCATION

Hochschule Bonn-Rhein-Sieg	**OCT 2022 — PRESENT**
MSc. Autonomus Systems	*Bonn, Germany*
Udacity	**FEB 2022 — APR 2022**
Advanced Cloud DevOps Engineer Nanodegree	*Online*
Mansoura University	**OCT 2017 — MAR 2022**
BSc. in Mechatronics Engineering with Honours | ***GPA:*** *3.9/4.0*	*Mansoura, Egypt*

WORK EXPERIENCE

Raseedi App   **FEB 2022 — PRESENT**
DevOps Engineer   *Cairo, Egypt*

- Ensured availability of the company's products on AWS, as well as assessing emergencies, providing analysis and recommending solutions.
- Migrated existing infrastructure on AWS into Terraform code in a highly-available and scalable manner along with its documentation into a more secured networking setup.
- Improved application latency significantly as measured by a 60% increase in Firebase Performance Metrics by migrating existing infrastructure into a nearby AWS region.
- Enhanced portability and reduced development overhead by containerizing back-end monolithic applications and micro-services and isolating dependencies using Docker.
- Ensured consistently adequate observability measured by a remarkably shortened mean time to resolution (MTTR) to incidents by deploying Prometheus, Grafana, and AlertManager stack to monitor live infrastructure.
- Reduced the AWS monthly bill by creating a detailed report using InfraCost and integrating it into a CI/CD Pipeline.
- Applied multiple deployment strategies like Canary, Blue/Green and the rolling updates as part of my duties.

Sprints   **AUG 2021 — OCT 2021**
DevOps Engineer Intern   *Cairo, Egypt*

- Set a unified Git Workflow for the development process that was then used in a multi-branch CI/CD Jenkins pipeline.
- Containerized a Python application using Docker and deployed them in a Linux environment to serve internal developers.
- Implemented CI/CD pipelines using Jenkins to automate the building process and the deployment of a a multi-container MEAN-stack web application and a Django web application across different development environments..

PROJECTS

Serverless Telegram Alert Bot \| https://github.com/neatphar/telegram-monitor-bot   **FEB 2022**
- Developed and deployed a serverless alerting bot that checks the status of other services and notifies users.

BEXBOT Chat Bot   **OCT 2021 — JAN 2022**
- Deployed a machine learning NLP-based modern chat-bot on Microsoft Azure and then on DigitalOcean.
- Configured a REST API endpoint for the bot to communicate with a front-end mobile application.

IEEE ManSB Website \| https://www.ieeemansb.org   **MAR 2020 — OCT 2020**
- Supervised a team of 3 members following agile methodology.   • Developed back-end MVT code using Python (Django).
- Set up a mail server that is used by at least 100 volunteers for e-mail communication.

SKILLS

Cloud Platforms	AWS, DigitalOcean
Tools and Languages	Docker, Kubernetes, Helm, Microservices with Kafka
	Git, Linux | Shell Scripting, Python, SQL
CI/CD Tools	Jenkins, Gitlab CI, CircleCI
Infrastructure As Code	Terraform, CloudFormation
Configuration Management	Ansible
Monitoring Tools	NewRelic, Prometheus + Grafana, Alertmanager | ElasticSearch, Fluentd, Kibana (ELK)
Keywords	AWS EC2, Load Balancer, RDS, EKS, ECS, VPC, ElasticSearch, Nginx, Reverse Proxy, Firewall, Kubernetes

VOLUNTEERING ACTIVITIES

Webmaster, *IEEE Mansoura Student Branch*	Dec 2020 — Feb 2022
Back-end Team Leader, *IEEE Mansoura Student Branch*	Spring 2020
Vice Chairperson of the Board, *IEEE Mansoura Student Branch*	Feb 2020 — Oct 2020
OGV (Out-Going Global Volunteer), *AIESEC Mansoura LC*	Sep 2020 — Feb 2021