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Omar Aboelmagd

DevOps Engineer

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WORK EXPERIENCE

Raseedi, a Fin-Tech Startup

DevOps Engineer

FEB 2022 — PRESENT

Cairo, Egypt - Remotely

- Ensured availability of the company's event-driven 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.
- Automated the process of creating AWS AMIs using Packer and Ansible.
- 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

DevOps Engineer Intern

AUG 2021 — OCT 2021

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 multi-container MEAN-stack web application and a [Django web application](#) across different development environments..

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, Packer

Configuration Management

Ansible

Monitoring Tools

NewRelic, Prometheus, Grafana, Alertmanager, Elasticsearch, Logstash, Kibana, Datadog,

Keywords

AWS EC2, Load Balancer, RDS, EKS, ECS, VPC, Nginx, Reverse Proxy, Firewall, Kubernetes, Synthetic Monitoring, Immutable Infrastructure, JIRA.

EDUCATION

Hochschule Bonn-Rhein-Sieg

MSc. Autonomous Systems

OCT 2022 — PRESENT

Bonn, Germany

Udacity

Advanced Cloud DevOps Engineer Nanodegree

FEB 2022 — APR 2022

Online

Mansoura University

BSc. in Mechatronics Engineering with Honours | GPA: 3.9/4.0

OCT 2017 — MAR 2022

Mansoura, Egypt

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.

VOLUNTEERING ACTIVITIES

Webmaster, IEEE Mansoura Student Branch

DEC 2020 — FEB 2022

OGV (Out-Going Global Volunteer), AIESEC Mansoura LC

SEP 2020 — FEB 2021

Back-end Team Leader, IEEE Mansoura Student Branch

MAR 2020 — AUG 2020

Vice Chairperson of the Board, IEEE Mansoura Student Branch

FEB 2020 — OCT 2020