

# Omar Aboelmagd

Bonn, Germany  
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DevOps Engineer

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## 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

## WORK EXPERIENCE

### Raseedi App

DevOps Engineer

FEB 2022 — PRESENT

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

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..

## 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

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