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Omar Aboelmagd

DevOps Engineer

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WORK EXPERIENCE

Aldi International Service SE & Co. oHG

IT Stores DevOps Engineer - IT Professional

FEB 2023 — PRESENT

Mülheim an der Ruhr, Germany

- Developed and managed CI/CD pipelines for 40+ projects, automating build and deployment processes on-scale, which significantly improved efficiency and reduced errors.
- Led the development of an automated credentials rotation internal system, enhancing security by ensuring automated creation/maintenance access keys and passwords over common vendors across teams.
- Managed the infrastructure setup for GitLab Runners, optimizing them to operate on an on-demand basis. This significantly reduced infrastructure costs while still maintaining high availability.
- Implemented DocOps Pipelines for several projects that enforced updated documentation, as intended, on GitLab Pages.
- Designed Grafana dashboards for real-time monitoring of GitLab CI/CD Pipelines performance and health, enabling proactive management and quick decision-making.
- Organized educational sessions on CI/CD, empowering other teams to create CI/CD Pipelines for their products.

Raseedi, a Fin-Tech Startup

DevOps Engineer

FEB 2022 — JAN 2023

Cairo, Egypt

- 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.
- Enhanced portability and reduced development overhead by containerizing back-end monolithic applications and micro-services and isolating dependencies using Docker.
- Ensured adequate observability measured by shortened mean time to resolution (MTTR) to incidents by deploying Prometheus|Grafana|AlertManager and Elasticsearch|Logstash|Kibana stack to monitor live infrastructure.
- Reduced the AWS monthly bill by creating a detailed report using InfraCost and integrating it into a IaC CI/CD Pipeline and moving Jenkins pipelines to be executed in Spot Instances.

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.
- 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, Bash Scripting, Python, SQL.

CI/CD Tools

Gitlab CI, Jenkins, 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.

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 subscribers.

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 was used by at least 100 volunteers for e-mail communication.

EDUCATION

Mansoura University

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

OCT 2017 — FEB 2022

Mansoura, Egypt

CERTIFICATIONS

AZ-900: Microsoft Azure Fundamentals | <https://learn.microsoft.com/en-us/users/.../da4104f72ba49ee4>

AUG 2023

Professional Scrum Developer (PSD) | <https://www.scrum.org/certificates/960717>

MAY 2023