Fazly Fathhy - DevOps Intern

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Profile

I am an undergraduate from the Faculty of Information Technology of University of Moratuwa, seeking opportunities to grow myself by gaining practical experience in the software development world. I am passionate about solutions in IT that can transform a society in a manner that inspires productivity while safeguarding the privacy and well being of everyone.

Education

July 2022

University of Morattuwa, BSc in Information Technology (R)
- **Coursework:** Software Engineering, DevOps, Computer Architecture, Artificial Intelligence,Comparison of Learning Algorithms, Computational Theory

T/ Kinniya Al-Aqsa National School, GCE - A/L   Sept 2018 - 2020
- **Coursework:** Engineering Technology

Technologies

Programming Languages: C , Java , JavaScript

Frameworks: React.js , Typescript , Express.js, Node.js

Operating System: Linux , Windows

Cloud Services: AWS

Containerization & Orchestration Tools: Docker, Kubernetes

Proxy Web Servers: NGINX

CI/CD Tool: Jenkins

Version Controlling: GIT

Databases: MongoDB

Certifications

DevOps with AWS, LinkedIn Learning
Kubernetes: Microservices, LinkedIn Learning
Continuous Delivery/Continuous Integration, LinkedIn Learning
DevOps on AWS, AWS
Introduction to Front-End Development, Coursera
Java Programming, Great Learning
Programming With JavaScript, Coursera
Developing Back-End Apps with Node.js and Express, Coursera
fundamental Course in Web Frameworks, Great Learning

Projects

Full-Stack Application Deployment with Docker, Docker Compose, and NGINX

- Successfully deployed a full-stack application utilizing Docker, Docker Compose, and NGINX, showcasing proficiency in containerization, reverse proxying, and load balancing. The project involved successfully developing a frontend served via an NGINX Docker container and a backend Node.js application running in multiple containers on ports 3001, 3002, and 3003. A docker-compose.yaml file was successfully created to orchestrate multiple containers, simplifying deployment. Additionally, NGINX was successfully configured as a load balancer using the least conn method, effectively distributing traffic evenly across backend instances to enhance system scalability and reliability.
- Tools Used: Docker, Docker Compose, NGINX

Automated Microservice CI/CD Pipeline Development

- Successfully built and implemented an automated CI/CD pipeline for microservices using Jenkins, ensuring streamlined and efficient software delivery across multiple service repositories
- Provisioned and configured an AWS EC2 server instance to serve as the pipeline environment, with tools like KubectlLI, Kubectl, and EXCTL installed for managing Kubernetes and AWS resources.
- Created and integrated Jenkinsfiles into every branch of the microservice repositories in GitHub, enabling consistent build and deployment workflows.
- Automated the creation of Docker images for microservices, facilitating reliable containerized application delivery.
- This project strengthened my expertise in continuous integration and deployment, focusing on scalability, maintainability, and modern DevOps practices.
- Tools Used: Jenkins, GitHub, AWS CLI, kubectl, eksctl, Docker

Deployed the Secret Santa Matchmaking Project

- Successfully built and implemented a CI/CD pipeline using Jenkins, automating the entire workflow from code checkout to deployment. Utilized GitHub for code committing, OWASP Scan for security scanning, and Docker for building and deploying the Secret Santa Matchmaking Project. This project enhanced my skills in continuous integration and delivery, focusing on code quality, security
- Tools Used: Jenkins, GitHub , OWASP scan, Docker

Online Quiz Exam Application(Team)   CoBit

- The aim of this project is to develop a comprehensive system for addressing the need for efficient and accessible exam preparation, initially focusing on driving license exam, with the use of modern web technologies
- Tools Used: React.js, Node.js, Express.js, MongoDB, Auth 0

Website for GratifyTours(Individual Project)   Gratify Tours

- I have developed and hosted this project for Gratify Tours, enhancing their marketing efforts and promoting their services effectively
- Tools Used: React.js, Material UI

Volunteer Experience

Group Leader - Level 2 Software Project

Content Creator - INTECS 2024

Company Coordinator, FIT CareerFair 2023

References

References available upon request