Mohamed Magdy

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PROFILE SUMMARY

With a background rooted in software development, I've had the privilege of evolving into a DevOps Engineer with proficiency in AWS, Jenkins, Terraform, and Ansible. I've had the opportunity to contribute to various projects, orchestrating complex infrastructure deployments and automating CI/CD pipelines. My journey as a developer has instilled in me a deep appreciation for software architecture and coding practices, allowing me to collaborate effectively with cross-functional teams. I remain dedicated to continuous learning and growth, eager to further hone my skills and make meaningful contributions to the DevOps community.

EDUCATION

BA Computer Engineering (Very good) July 2023
Helwan University

PROFESSIONAL EXPERIENCE

Sudo Tech Solutions– *Software engineer* Aug 2023 – Present

- Collaborated with the DevOps team to design and implement CI/CD pipelines using tools such as CircleCI and Jenkins, ensuring efficient and automated software delivery.
- Developed and maintained Terraform modules to automate infrastructure provisioning, configuration, and deployment, contributing to improved scalability and reliability of cloud infrastructure.
- Utilized various AWS services such as EC2, S3, RDS, Lambda, DynamoDB, IAM, and others effectively to meet project requirements also contributed to writing Lambda functions for web projects, enhancing functionality and performance.

TECHNICAL SKILLS

- Devops: AWS - Jenkins - CircleCI - Terraform - Ansible - Docker - Kubernetes - Sonarqube - Jira
- Developer: C - C++ - java - Nodejs - Python
- Testing: Nightswatch - jest - Postman -Junit

PROJECT EXPERIENCE

Jenkins-Sonarqube-Docker 🔗

- Spearheaded a DevOps strategy to enhance the software development lifecycle, emphasizing automation, infrastructure as code, and CI/CD practices.
- Leveraged Docker containers, Jenkins pipelines, and Terraform modules to streamline deployment processes, ensuring smooth software delivery with reduced errors.
- Utilized SonarQube for proactive code analysis and testing, enhancing code quality standards and mitigating security risks early in the development process.

Cloud Resume Challenge Project 🔗

- Successfully completed the Cloud Resume Challenge project, demonstrating proficiency in cloud technologies such as AWS, Terraform, and GitHub Actions.
- Designed and deployed a dynamic resume website using AWS services like S3 for hosting, CloudFront for content delivery, and DynamoDB for database management.
- Utilized Infrastructure as Code (IaC) principles with Terraform to automate the provisioning and configuration of cloud resources, ensuring scalability, reliability, and maintainability of the infrastructure.

Ansible Jenkins Docker Project 🔗

- Designed a robust pipeline orchestrating Ansible playbooks to rebuild images, ensuring the application remains up to date with the latest updates.
- Implemented Jenkins pipeline to automate Git checkout upon new push events, ensuring seamless integration with version control systems. Subsequently, facilitated the copying of project files from the Jenkins workspace to the Docker server, optimizing image building processes within the CI/CD pipeline.
- Utilized Terraform modules to provision EC2 instances, security groups, and VPC, enhancing maintainability and enabling automation while avoiding redundant configurations.

A Dynamic API Project

- Developed a Lambda function to facilitate seamless interactions with the POST method on the DynamoDBManager resource within Amazon API Gateway.
- Enabled a wide range of DynamoDB operations, including item creation, updating, deletion, reading, and scanning, alongside support for miscellaneous operations like echo and ping.
- Demonstrates adeptness in AWS integration and database management, reflecting a commitment to delivering robust solutions through agile testing methodologies.

Automated Warehouse System (graduation project)

- Used cutting-edge technologies, including Machine Learning, Reinforcement Learning, ROS2, and simulation tools, while incorporating embedded system concepts to drive innovation.
- Designed hardware interfaces and embedded systems, enhancing seamless communication and control between robots, leveraging protocols like I2C.
- Utilized FreeRTOS to schedule tasks for sensor data acquisition and robot motion control, ensuring efficient and real-time operation of the automated warehouse robot system.
- Implemented 2D SLAM for mapping and path planning in a dynamic multi-robot ecosystem. Created an intuitive real-time data visualization dashboard, enabling warehouse proprietors to make data-driven decisions with ease.