Giza, Egypt
(Ability to relocate)

ABDELRAHMAN HAMOUDA

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EMPLOYMENT

DevOps Engineer	**OmniOps**	**July 2024 - Present**

Saudi Arabia (Full-Time)

OmniOps AI Platform

- Collaborated on the development and maintenance of a scalable AI platform, incorporating model deployment, optimization, GitOps workflows (using ArgoCD), and self-hosted GitLab, as well as integrating Airflow and Jupyter Hub—all within a Kubernetes environment.
- Managed and automated deployment pipelines for various services, enabling smoother releases and minimizing downtime.
- Supported the development team by enhancing CI/CD processes, optimizing workflows, and ensuring high platform availability and reliability through effective infrastructure management and monitoring.

Saudi OTL Project

- Played a key role in implementing a comprehensive observability solution utilizing OpenTelemetry (zero-instrumentation method), integrated with Prometheus, Grafana, Loki, Tempo, and Alertmanager, to improve system visibility.
- Contributed to the deployment and configuration of OpenTelemetry agents for gathering metrics, logs, and traces, enhancing monitoring coverage and facilitating proactive issue detection and resolution.
- Leveraged monitoring and alerting best practices to ensure optimal infrastructure performance, minimize incident response time, and support a culture of continuous improvement.

DevOps Engineer	**Brain**	**May 2024 – July 2024**

US (Part Time)

- Infrastructure as Code (IaC): Designed and managed infrastructure using Terraform, automating resource provisioning and scaling on cloud platforms for efficient and secure setups.
- CI/CD Pipeline Management: Developed and maintained CI/CD pipelines to streamline testing, build, and deployment processes, ensuring reliable and timely software releases.
- Automation of N8N Deployment and Workflow Monitoring: Deployed and maintained N8N workflows to automate complex business processes. Monitored the stability and performance of AI workflows, ensuring uninterrupted and optimal operation.
- API Monitoring with Prometheus and Grafana: Set up and maintained monitoring dashboards using Prometheus and Grafana, tracking API latency, failed requests, and AI workflow performance. Configured alerts to notify the team when metrics exceeded predefined thresholds to ensure prompt issue resolution

DevOps Engineer	**Vodafone International Services "_VOIS",**	**Dec 2022 – Jul 2024**

Egypt (Full-Time)

- Played a crucial role in the VOIS project, collaborating closely with the Google Cloud Team to develop a solution that empowered VOIS to audit requests and enforce Vodafone policies before routing them to LLM models effectively.
- Supported ML engineers to host, train and deploy LLM models provided by GCP, Azure OpenAI service and open source using Vertex AI Service from GCP

- Led the implementation of infrastructure as code practices within the team, orchestrating the provisioning of GCP and Azure environments. Ensured secure communication between environments, allowing calls to LLMs hosted on Azure from GCP, enforcing security principles and identity management.
- Researched and recommended new technologies "Trivy" to apply DevSecOps to improve security within our pipelines resulting in a remarkable **98%** security compliance rate across our environments.
- Successfully delivered two solutions using Cloud Build, Terraform, python and bash script to automate customer Cloud Run and Cloud Functions deployment resulting in the elimination **95%** of deployment manual work the customers only need to test their deployments working as excepted or not.
- Used Argo Workflows template with Terraform, Bash and a NodeJS API to provision five projects in GCP with the required infrastructure reducing the process time from **3 Hours** to only **30 min** once the customer gets the approval for environment creation.

EDUCATION

Kafr El-Sheikh, Egypt	Faculty of Engineering Kafr El Sheikh University	Aug 2017 – Jul 2022

- Bachelor's Degree in Telecommunication and Electronics Engineering (Grade: Very Good).
- **Graduation Project:** Converting the usual mirrors in our home to smart one with a lot of features like Face ID logging, Control your home, Create Profile for each person, Google Assistant using your Voice, Security Motion Detector with email for any strange behavior where the mirror is located and it's a screen touch (Grade: Excellent).

SKILLS & ABILITIES

- **Programming**: NodeJS, Python and general knowledge in Go.
- **Cloud Platforms**: Google Cloud Platform (GCP), AWS.
- **DBMS**: MongoDB, Firestore, and SQL.
- **Container and Orchestration**: Docker, Kubernetes (GKE), ArgoCD, Helm.
- **CI/CD Tools:** Jenkins, Cloud Build, Cloud Deploy, GitHub Actions and CircleCI.
- **IaC:** Terraform.
- **Others:** Nginx, Apache, Linux, Git, GitHub, Vault, Networking, Keda, Agile, and Jira.

COURSES AND CERTIFICATIONS

- Google Cloud Professional Cloud Architect Certification [Link]
- Google Cloud Certified Professional Cloud DevOps Engineer. [Link]
- Google Cloud Certified Associate Cloud Engineer. [Link]
- AWS Certified Cloud Practitioner. [Link]
- CCNA: Enterprise Introduction to Networking, Security, and Automation. [Link]
- DevOps on AWS: Release and Deploy. [Link]
- DevOps on AWS: Code, Build, and Test. [Link]
- IT Academy: Cloud and Virtualization Concepts. [Link]

OTHER INFORMATION

Links: LinkedIn - GitHub
Spoken Languages: Arabic (Native), **English** (Fluent).