



# Mohamed Gamal DevOps Software Engineer

📍 Cairo, Egypt    ✉ mohamedgamal2595@gmail.com    ☎ 01552844490 - 01097619294     mohamedgamal2595

 MohamedGamal10

## Profile

DevOps Software Engineer with expertise in CI/CD, automation, and cloud technologies. Skilled in Python-based network automation, including configuration management, provisioning, and monitoring. Proficient in Linux, Docker, Kubernetes, and AWS. Strong in Python scripting, API integration, and leveraging libraries like Django and Ansible to optimize performance. Collaborative team player delivering scalable, efficient solutions.

## Education

2013 – 2018      **B.Sc. of Electronics & Telecommunication Engineering,**  
*Misr University For Science & Technology (MUST)*  
Very Good With honor (GPA 3.42)

## Professional Experience

- 08/2019 – present

**Backend Software Developer, Telecom Egypt (WE)**
  - Solve LTE network problems by getting and analyzing large amounts of data, to identify business insights and opportunities.
  - Design simulations, experiments, Build statistical & decision-making ML models by tailoring to business needs & translate business issues into potential analytics solutions
  - Developed Machine Learning /AI models & analyze data aiming to improve network KPIs
  - Developed in-depth dashboards to enable faster decision making
  - Supports the prioritization of both internal and external data assets and works with technology in setting key requirements for data sourcing , monitoring and analyzing model performance and data drift.
  - Developed automation tools for monitoring Networks
  - Developed tools to automate some business operations
  - Performed network analysis to troubleshoot issues
- 08/2018 – 08/2019

**Data Analytics Engineer, Z2Data**
  - Developed Automate tools to scrape HTS & ECCN Code for any electronics
  - Performed analysis on Product Change Notification for electronics components
  - Performed further analysis on electronics components manufacturing location
  - Prepared reports based on analysis and presenting to management

## Courses

- (Certificate) AWS Certified DevOps Engineer (inprogress)**
- 09/2024

**(Certificate) Associate Google Cloud Engineer, GCP** 
- 10/2022

**(Certificate) Certified Azure Data Scientist Associate, Microsoft** 
- 10/2021

**(Certificate) AWS Certified Machine Learning Specialty, AWS** 
- 09/2022

**(Certificate) Big Data Master Class, Sprints.ai**

## Skills

**Technical Skills** — Scripting Language (Bash Scripting, Python) , AWS, Azure, GCP, Terraform, Ansible, Jenkins, Docker, Django, Kubernetes, CICD, Nginx, Git, Github, VMware, SQL (PostgreSQL), NoSQL (MongoDB), Fastapi, Grafana

## Projects

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### **Infrastructure Automation with Terraform and Ansible,** *AWS, Terraform, Ansible, Docker, Jenkins.*

Developed scalable infrastructure across two AZs with Terraform, including VPC and Auto Scaling Group (ASG), and configured Docker on private instances using Ansible, implementing GitOps for CI/CD automation.

### **Network Analytics and Performance Optimization,** *Reactjs, Postgresql, Python Fastapi, Docker*

Developed LTE network monitoring applications for alarm correlation, KPI forecasting, and clustering analysis, along with interactive dashboards for performance evaluation and incident management.

### **Automated Deployment Pipeline,** *Python Flask, Ansible, Jenkins, Kubernetes, GKE*

Develop a pipeline to automate the build, testing, and deployment of a python application. Utilize Jenkins for continuous integration, Docker for containerization, and Ansible for configuration management. Implement automated testing and deployment to a cloud environment GCP GKE.

### **Bash Shell Script Database Management System (DBMS),** *Linux, Bash Scripting*

Developed a CLI-based DBMS in Bash for managing databases and tables, allowing users to store and retrieve data with validation for column types and primary keys.

### **Customer Complaints and Field Maintenance Applications,** *Reactjs, Postgresql, Python Fastapi, Docker*

Developed applications for front-office operations, including a Customer Complaints DB for tracking issues and a Field Maintenance DB for managing power consumption, site security index, and spare parts.

## Languages

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- Arabic
- English