

Mohamed Karam

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Professional Summary

I'm a Systems and DevOps Engineer and Red Hat instructor in Linux Plus Information Systems specializing in ansible automation (RHCE® certified), CI/CD pipe-lining, software deployment, containerization, and virtualization, Well-versed in Python development, and 2-years of experience in Linux administration (RHCSA® certified), over 500 paid freelancing hours, more than 8 projects, and seek to learn new technologies.

Work Experience

- **Linux-Plus Information Systems** — [Maadi, Cairo, Egypt](#) — *Systems and DevOps Engineer*
Nov 2022 - PRESENT
Responsibilities: Openshift Implementation, Ansible network automation, Red Hat Courses Delivery, Ansible Automation Controller (ansible tower) deployment, PXE bare-metal OS deployment automation, SSO configuration using miniOrange.
- **Freelancing** — [Remote](#) — *Systems Administrator*
Dec 2020 - Oct 2022
Responsibilities: Deployment of software applications like CATTR for time tracking, Dokuwiki for creating wikis, Passbolt for password management, Development of PassEg password manager, and the configuration of ESXi server and integrating with OPNsense firewall.
- **Egirna Technologies** — [Sheikh Zayed, Giza, Egypt](#) — *Systems Administrator*
Dec 2019 - Jun 2020
Responsibilities: Deploy, maintain, and troubleshoot software systems on Ubuntu servers, configure servers' security using Iptables, create and deploy docker images, develop APIs using Python, and deploy and configure nginx web servers.

Education

- **National Telecommunication Institute (NTI)** — [Smart Village, Egypt](#) - *Cyber Security internship*
Sept 2019 - Oct 2019
- **FEE (Faculty of Electronic Engineering), CSE (Computer Science & Engineering Department)** — [Menofia University, Egypt](#) — *Bachelor's degree*
Oct 2013 - Jul 2019
- **Information Technology Institute (ITI)** — [Smart Village, Egypt](#) - *Cyber Security summer training*
Aug 2018 - Sept 2018

Technical Skills

- **Orchestration:** Kubernetes, and Red Hat® Openshift Container Platform.
- **Containerization:** Build, run, and administrate containers using docker, docker-compose, podman, and skopeo.
- **Automation:** Jenkins CI/CD Pipe-lining, IAAC using Ansible, Terraform, Bash and Python scripting.
- **Software Deployment/Administration:** Nginx, Apache, PostgreSQL & Mongo-db, pgAdmin & Mongo-express, CATTR for time tracking, Dokuwiki for creating wikis, Passbolt for password management, and OpenBankProject (a banking api).
- **Programming:** Python for software development, task automation, API development, communication programming, Flask for web development.
- **Repository Managers:** Docker Hub, Nexus, Quay, Red Hat® Registries, and Helm.
- **Package Managers:** apt, snap, yum, dnf, pacman, yay, npm, yarn, and pip.
- **Cloud Platforms:** AWS, Digital Ocean, and Linode.
- **Source Control:** GitHub, GitLab, and CodeCommit.
- **Build tools:** maven, gradle, and CodeBuild.
- **Virtualization:** VMware (Workstation, ESXi, vCenter), Virtualbox, Vagrant, and Nutanix.
- **Security:** RHACS (Red Hat Advanced Cluster Security), Squid proxy, OPNSense firewall, iptables, local & LDAP authentication, SSO, and OpenSSL for secured connection.
- **Linux:** RHEL, Centos, Fedora, Debian, Ubuntu, Manjaro, Kali.
- **Networking:** EVE & Packet Tracer, Cisco IOS/IOSXR.
- **Freelancing:** Over 500 hours paid freelancing hours.

Projects

- **Openshift Extended Operations** — [Implementation of a hub cluster in SAIB-Bank](#)
Cluster scanning and remediation, image vulnerability scanning, and network policies management using RHACS (Red Hat Advanced Cluster Security).
- **Openshift Implementation** — [Implement 4 Clusters in Mid-bank DR Site](#)
Implementing 3 Applications-clusters, and a hub cluster, perform the post installation operations.
- **Network Automation** — [Automating the administration of Network Devices](#)
Develop playbooks for retrieving & changing, and backing up network devices' configuration.
- **Automation of Baremetal OS installation** — [Linux OS Installation automation](#)
Automating the installation of Linux Client OS on bare metal using PXE network booting.
- **Message Queuing** — [Apache Kafka Implementation and API development](#)
Implementation of dockerized Apache Kafka and Zookeeper and develop a kafka API client.
- **Squid System** — [Full Proxying System](#)
Integrate squid with a WebUI, develop its API with Python, and develop a command line interface.
- **PassEg** — [Password manager](#)
Creating the API of a password manager to store the encrypted passwords of a user in Python.
- **OBP (Open Bank Project)** — [Banking API](#)
Implementing the API of an open-source banking API system.

Certificates & Qualifications

- **RHCE (Red Hat® Certified Engineer)**
Mar 2023 - Mar 2026
- **RHCSA (Red Hat® Certified System Administrator)**
Jan 2023 - Mar 2026

Training Experience (Courses Delivery)

- **RH134 (Red Hat System Admin 2)**
Clients:
 - EBI (Egypt Banking Institute) & NBE (National Bank of Egypt)
Aug 2023
 - Oracle & Orange
Mar 2023
- **RH124 (Red Hat System Admin 1)**
Clients:
 - EBI (Egypt Banking Institute) & NBE (National Bank of Egypt)
Jul 2023
 - Oracle
Dec 2022

Extracurricular Activities

- **Organizer of The 7th control exhibition in FEE, Improved my team working skills**
2016
- **Students' Union member in FEE, Improved my work efficiency**
From 2014 to 2017
- **Team Leader in Robotics Transporter competition in FEE, Improved my leadership skills**
2015

Languages

- **Arabic:** Mother Language
- **English:** Good

Personal Information

- **Date of Birth:** 19th July 1995
- **Marital status:** Single
- **Military Service:** Completed