

# Bahaa Abdelkhalik

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OpenShift & Platform Engineer | RHCSA | RHEL & Kubernetes Specialist

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## Professional Summary

OpenShift & Platform Engineer with hands-on production experience managing Red Hat OpenShift clusters and enterprise RHEL infrastructure. Skilled in deploying and operating OpenShift in connected and air-gapped environments, implementing monitoring and observability using Prometheus and Grafana, and supporting containerized workloads. RHCSA with strong background in Linux platform operations, automation, and infrastructure reliability across on-premises and cloud environments.

## Platform Experience

- OpenShift cluster installation, configuration and lifecycle management
- Air-gapped / disconnected OpenShift deployments
- Cluster monitoring & observability using Prometheus and Grafana
- RBAC, security policies and platform access management
- Container workload troubleshooting and platform reliability
- Enterprise Linux platform operations (RHEL)

## Technical Skills

Platform & Containers: Red Hat OpenShift, Kubernetes, Docker

Linux Systems: RHEL, Ubuntu, CentOS

Automation: Ansible, Bash, Terraform

Monitoring & Observability: Prometheus, Grafana, ELK Stack

Cloud Platforms: Oracle Cloud Infrastructure (OCI), AWS

Networking: DNS, TLS/SSL, SSH, Firewalls, IAM

Programming: Bash, Python, Node.js, Java

## Professional Experience

### Infrastructure System Engineer – Smart System LLC, Egypt (Jan 2026 – Present)

- Managed enterprise RHEL infrastructure supporting container platforms and production workloads.
- Installed and operated Red Hat OpenShift clusters in secure air-gapped environments.
- Implemented monitoring using Prometheus and Grafana improving incident detection and troubleshooting efficiency.
- Monitored platform health, performance and availability across production environments.
- Collaborated with application and middleware teams to ensure reliable container deployments.

### OpenShift Administrator – Smart System LLC, Egypt (Sep 2025 – Dec 2025)

- Installed and configured OpenShift clusters on Oracle Cloud Infrastructure (OCI).
- Managed cluster networking, workloads and basic storage configurations.
- Supported containerized applications and assisted development teams with deployments.
- Improved platform visibility through monitoring and logging implementation.

### System Infrastructure Intern – Valleysoft (Part of NTI Employment Scholarship) (Jun 2025 – Aug 2025)

- Infrastructure internship completed as part of the NTI 4-month Employment Scholarship program.
- Performed RHEL administration including users, services, storage and networking.
- Installed and configured IBM DB2 databases on Linux servers.
- Automated Linux environment setup using Bash and Ansible scripts.
- Supported infrastructure monitoring and alerting operations.

### Backend Developer (Node.js) – DramCode, Remote (Mar 2024 – Feb 2025)

- Developed RESTful APIs using Node.js and MongoDB.
- Containerized applications using Docker to standardize deployments.
- Participated in CI/CD pipeline setup and deployment automation.
- Collaborated with infrastructure teams enabling container-based deployments.

## Selected OpenShift Projects

### Air-Gapped OpenShift Platform Deployment

- Deployed OpenShift cluster in a disconnected (air-gapped) environment.
- Configured internal image registry mirroring and offline operator installation.
- Implemented secure cluster access and certificate management.
- Built monitoring stack using Prometheus and Grafana for platform observability.

## OpenShift Monitoring & Observability Platform

- Built centralized monitoring for OpenShift workloads using Prometheus and Grafana dashboards.
- Configured alerts for node health, pod failures and resource utilization.
- Enabled proactive detection of incidents reducing troubleshooting time.
- Documented monitoring architecture and operational runbooks.

## Training & Education

National Telecommunication Institute (NTI) – Employment Scholarship (Service Oriented Architecture & Microservices Track)

Feb 2025 – Jul 2025

- 4-month intensive government-sponsored program focused on enterprise software architecture and infrastructure platforms.
- Red Hat Enterprise Linux Administration I & II (RHEL system administration and enterprise Linux operations).
- Service Oriented Architecture (SOA) and Microservices architecture principles.
- Java Backend development fundamentals for enterprise applications.
- IBM Integration and Automation platforms training.
- Business English and professional communication skills training.
- Program included hands-on industry internship at Valleysoft.

Bachelor of Science in Navigation Sciences and Space Technology – Beni Suef University (2024)

## Certifications

- Red Hat Certified System Administrator (RHCSA)
- Red Hat OpenShift Administration DO180
- Oracle OCI DevOps – Oracle University
- Kubernetes for DevOps
- IBM Containers, Docker, Kubernetes and OpenShift