Abdelrahman Mahmoud

System Engineer | Red Hat Certified OpenShift Administrator

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PROFILE

System Engineer and **Red Hat Certified OpenShift Administrator** with hands-on experience administering Linux servers, container platforms, and enterprise integration environments. Experienced in operating **Red Hat OpenShift** and **IBM Cloud Pak for Integration (CP4I)**, managing Docker-based deployments, networking, reverse proxies, SSL/TLS, and CI/CD pipelines, and running identity and access management with **Keycloak, LDAP, SSO, OAuth 2.0, and OpenID Connect**. A software development background in Java, Spring Boot, PHP, and Laravel supports automation, deep troubleshooting across application, middleware, and infrastructure layers, and close collaboration with development teams. Strong interest in platform reliability, API management, and IBM API Connect.

SKILLS

Container Platforms	Red Hat OpenShift (administration), Kubernetes, Docker, containerized applications
Integration Platforms	IBM Cloud Pak for Integration (CP4I), IBM API Connect, IBM App Connect Enterprise / Integration Bus
Linux & Infrastructure	Linux server administration, networking, Nginx, reverse proxy, SSL/TLS certificates, monitoring & incident troubleshooting
Identity & Security	Keycloak, LDAP, SSO, OAuth 2.0, OpenID Connect, JWT, API security
CI/CD & DevOps	GitLab CI/CD, deployment workflows, production operations
Databases	PostgreSQL, MySQL
Development	Java, Spring Boot, PHP, Laravel, RESTful APIs, JSON/XML, webhooks, Angular, HTML, CSS

PROFESSIONAL EXPERIENCE

Software Engineer, *Valleysoft* 2025/01 - Present | Cairo, Egypt

- Develop and maintain integration solutions on **IBM Cloud Pak for Integration (CP4I)** and **IBM API Connect**.
- Work with **Docker, Linux, reverse proxies, networking**, and application deployment environments.
- Integrate enterprise applications with identity and access management using **Keycloak, SSO, OAuth 2.0, and OpenID Connect**.
- Collaborate across development, infrastructure, and integration teams to troubleshoot application, API, middleware, and deployment issues.
- Design integration architectures, API contracts, and service-to-service communication with a focus on security, reliability, and scalability.
- Design and develop enterprise backend applications and RESTful APIs using **Java, Spring Boot, PHP, and Laravel**.
- Develop integrations with external services including SMS providers, IoT/access-control systems, and third-party APIs.
- Work with **PostgreSQL** and relational databases; build modular HR, CRM, Self-Service, and Service Desk modules.

System Engineer, *Valleysoft* 2023/11 - 2025/01 | Cairo, Egypt

- Administered and supported **Linux-based servers**, enterprise application environments, and integration platforms.
- Administered **IBM Cloud Pak for Integration (CP4I)** environments, supporting integration runtime components, deployments, configurations, and operational troubleshooting.
- Managed **Docker-based deployments**, networking, reverse proxies, SSL/TLS certificates, and service configurations.
- Worked with identity and access management technologies including **LDAP, Keycloak, SSO, OAuth 2.0, and OpenID Connect**.
- Worked with **IBM API Connect** for API configuration, lifecycle management, security policies, and application-to-application integrations.
- Designed and supported enterprise integration flows using **IBM Integration Bus / App Connect** patterns, connecting internal applications, ERP modules, and external services.
- Worked with **GitLab CI/CD pipelines** and deployment workflows for enterprise applications and integration services.
- Supported system monitoring, incident troubleshooting, platform maintenance, and production operations.

IT Help Desk, *Valleysoft* 2023/08 - 2023/11 | Cairo, Egypt
IT Help Desk, *Monginis Bakery* 2021/07 - 2023/08 | Giza, Egypt
Assistant, *Monginis Bakery* 2016/10 - 2021/07 | Giza, Egypt

CERTIFICATES

Red Hat Certified OpenShift Administrator
Red Hat

Red Hat Portfolio: Foundational
Red Hat

SQL
Solo Learn

HTML
Solo Learn

Responsive Web Design
Solo Learn

SELECTED PROJECTS

ERP Platform, *Valleysoft* 2024 - Present

Java / Spring Boot / Angular / PostgreSQL / Keycloak

- Supported deployment and integration of backend services in containerized environments.
- Implemented SSO and centralized identity integration using Keycloak.
- Integrated the platform with SMS providers and IoT/access-control systems; designed integration points between internal modules and external systems.
- Worked on API security, authentication, authorization, and service-to-service communication.

Enterprise API & Integration

Keycloak / OAuth 2.0 / OpenID Connect / Docker

- Integrated applications with Keycloak for centralized identity and SSO, with secure authentication and authorization flows.
- Designed API contracts and handled request/response transformations.
- Troubleshot connectivity, authentication, and integration failures across distributed systems.

Open-source Laravel packages 2025

Keycloak Laravel Auth (Keycloak SSO for API and Filament via Socialite), **Laravel API Response** (fluent API response builder), and **bhry98 Laravel Ready** (production-ready project starter).

Mora Electric, *Redeem points application* 2025/06 - 2025/08

Earlier projects 2020 - 2024

HR Management System (Valleysoft), Taggy and Events System APIs (freelance), and a Maintenance System for Monginis Bakery.

EDUCATION

Management Information Systems, *Thebes Academy* 2019/09 - 2023/05 | Giza, Egypt