

Mohammad Zakery

DevOps Engineer

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Professional Summary

DevOps Engineer with more than 6 years of hands-on experience in designing, implementing, and maintaining scalable infrastructure, CI/CD pipelines, and Kubernetes clusters. Specialized in container orchestration, monitoring, database management, and improving system observability. Previously worked in IT infrastructure management and support for educational organizations. Passionate about solving complex infrastructure challenges, automating processes, and collaborating effectively with development and operations teams.

Skills

- **Containerization & Orchestration:** Docker, Kubernetes (RKE2), Cilium, Istio Service Mesh, MetalLB
- **CI/CD & Automation:** GitLab CI/CD, Ansible, Packer, Nexus Repository
- **Infrastructure:** HAProxy, HashiCorp Vault, Linux (Debian, CentOS), OS Hardening
- **Monitoring & Observability:** Prometheus, Grafana, Zabbix, Kiali, Jaeger
- **Databases & Messaging:** PostgreSQL (PgBouncer), MongoDB ReplicaSet, RabbitMQ
- **Networking:** CCNA, CCNP Route & Switch, Kerio

Professional Experience

DevOps Engineer

Kavano, Tehran

Oct 2022 – Present

- Deployed and managed 3-master + 5-worker Kubernetes cluster using RKE2 and Cilium.
- Implemented Istio Service Mesh with Kiali and Jaeger to improve observability.
- Automated build and deployment pipelines for PHP, Python, and Node.js applications using GitLab CI/CD.
- Installed and configured 25 Media Stream servers with Ansible and Packer.
- Centralized secret and SSH access management using HashiCorp Vault.
- Set up comprehensive monitoring with Prometheus, Grafana, and alerting.
- Deployed organizational chatbot based on Llama.cpp, Ollama, and VVLM.
- Configured RabbitMQ replicas and PostgreSQL with PgBouncer.
- Ministry of Education virtual classrooms (SHAD).

Linux System Administrator

Kavano, Tehran

Jul 2021 – Sep 2022

- Managed Debian and CentOS Linux servers.
- Enhanced infrastructure monitoring using Zabbix.
- Containerized legacy React.js and Laravel applications.
- Deployed and optimized Moodle LMS with HAProxy and database tuning.
- Developed Selenium test bots for concurrent load testing (up to 500 users).

IT Manager (Informatics Manager)

Rayatak (Alameh Tabatabaei Schools), Tehran

Jul 2017 – Jun 2021

- Designed server rooms, structured cabling, and network documentation across branches.
- Led network modernization (ISA/TMG → Kerio & MikroTik).
- Implemented Windows Server, Active Directory, and upgraded virtualization to VMware ESXi.

Help Desk / IT Support Specialist

Rayatak (Alameh Tabatabaei), Tehran

Jul 2015 – Jun 2017

- Provided technical support for 14 branches.
- Managed hardware troubleshooting and passive network infrastructure.

Network Administrator

Shafa Clinic, Tehran

Jun 2014 – Jun 2015

- Managed HP servers, QNAP NAS, network switches, and CCTV systems.

Education

Bachelor's Degree in Computer Engineering – Software

Islamic Azad University, Tehran | 2008 – 2013 | GPA: 16/20

Certifications

- Kubernetes, maktabkhooneh (2025)
- Linux Essentials - LPIC-1 - LPIC-2, Tosinso Institute (2019)
- CCNA - CCNP Route - CCNP Switch, Rahnemafard Institute (2012)
- Microsoft Server 2012, Rahnemafard Institute (2012)

Key Project

Avatalk English Language Quiz System — August 2025

- Designed and deployed scalable Kubernetes platform (3-master + 3-worker) supporting 4000 concurrent users.
- Technologies: RKE2, Cilium, MetalLB, Istio, Prometheus, Grafana, GitLab CI/CD, PostgreSQL, MongoDB.
- Live: <https://lms.avatalk.ir>