

# Ehsan Asadi   DevOps Engineer

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## PROFILE

Senior DevOps & DataOps Engineer with 6+ years of experience architecting and operating large-scale, cloud-native environments. Skilled at automating end-to-end CI/CD pipelines, designing resilient infrastructure, and driving cross-functional collaboration to meet demanding SLAs.

### Intresting:

- Advised startups & SMEs on production-ready infrastructure best practices.
- Modernized legacy systems into cloud-native, auto-scaling architectures.
- Streamlined operational workflows by automating key processes and troubleshooting issues.

## SKILLS

### Soft Skills:

- Cross-functional collaboration, on-call incident management, troubleshooting, mentoring, documentation

### Hard Skills:

- **Infrastructure & Orchestration:** Kubernetes, Docker, VMware ESXi, Proxmox KVM, Terraform, Vagrant, Ansible
- **Storage:** Ceph Storage, MinIO, OpenEBS, NFS, GlusterFS
- **CI/CD & Automation:** GitLab CI, Jenkins, Argo CD, Helm charts
- **ML & AI:** DeepSearch , MLflow, Ollama, VLLM, Langfuse, BentoML, Seldon Core, LangChain, NVIDIA Triton
- **Monitoring & Observability:** Prometheus, Grafana, Alertmanager, ELK/EFK Stack, Uptime-Kuma
- **Networking & Security:** BIND9 DNS, PowerDNS, HAProxy, Keepalive, Nginx, Traefik, OPNsense,PFsense, MikroTik RouterOS, Vault, Keycloak, Linux hardening, firewall management, VLAN segmentation
- **Databases & Data Platforms:** PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, ClickHouse, Hive Metastore, Trino, Apache Kafka, RabbitMQ, Apache NiFi, DataHub, GrowthBook
- **Operating Systems & Platforms:** Linux (Ubuntu, Debian)
- **Programming & Scripting:** Python (FastAPI, Django,DRF, Flask), Bash
- **Software Architecture and Design:** Microservices Architecture, Object-Oriented Programming (OOP), Design Patterns, SOLID Principles
- **Version Control & Collaboration:** Git, GitLab

## PROFESSIONAL EXPERIENCE

**DataOps Engineer, SnappFood Company** 2024/10 – present | full-time

- **Managed Kubernetes clusters** (600+ CPU cores, 10TB RAM).
- **Provisioned and optimized data infrastructure** to empower engineering, science, and analytics teams.
- **Engineered scalable data pipelines** capable of ingesting and transforming hundreds of more than 300 millions of events per day with minimal latency.
- **Coordinated infrastructure** requests as SPOC across multiple data teams.

### Achievements:

- Served as a core contributor in a multi-phase data-center migration, coordinating cutovers to achieve seamless, zero-downtime transition.
- Deployed GitOps workflows for automated, declarative deployments.
- Implemented an end-to-end monitoring and alerting ecosystem capturing key metrics and defining actionable alerts to maintain system health.
- Optimized infrastructure performance and resource utilization
- Ensured continuous availability of critical services through proactive health checks, redundancy planning, and rapid incident response.
- Ensured 24/7 availability by owning on-call rotations and incident response.

## Smartegic, Platform Engineer / MLOps Engineer

2025/05 | contract

- **Architected a secure, hybrid analytics platform** with centralized data processing and isolated on-prem agents deployed across client organizations. Designed microservice-based infrastructure enabling strict one-way data flow and offline decision support.
- **Enforced one-way data flow** and zero-trust security across hybrid environments.

### Achievements:

- Delivered a MLOps stack integrating LLM-based semantic search pipelines with automated data ingestion, deployment workflows, and access-controlled model management.
- Engineered daily crawling & ingestion pipelines to refresh semantic indexes at scale.

## DevOps Engineer / Infrastructure Engineer, AIO

2024/05 – Present | part-time

- **Engineered virtual infrastructure** on VMware ESXi & Proxmox KVM for multi-environment support.
- **Implemented comprehensive platform ecosystem** including critical services, databases, and applications with strategic backup and disaster recovery solutions.
- **Acted as architect for virtualization, networking, security**, and 24/7 operations.

### Achievements:

- Engineered end-to-end virtualization from ground up.
- Designed network segmentation & firewall frameworks for enhanced security.
- Deployed comprehensive monitoring and alerting systems
- Designed disaster recovery strategies with backup automation
- Configured and managed enterprise DNS infrastructure to guarantee reliable name resolution and network stability.
- Engineered ETL pipelines for data ingestion and transformation.

## DevOps Engineer / SysOps Engineer, Lifeweb Company

2022/12 – 2024/10 | full-time

- **Architected resilient Kubernetes clusters** with Ceph storage and DR planning.
- **Managed and maintenance for a 300+ node Linux server** fleet, tuning kernel parameters to reduce I/O wait and boost throughput.

### Achievements:

- Implemented automated CI/CD pipelines
- Configured Vault & Keycloak for centralized secret management.
- Deployed ELK & Prometheus for real-time log analysis and alerting.
- Configured BIND9 DNS and mail servers with compliance best practices.
- Ensured 24/7 uptime via on-call rotations and incident management

## DevOps Engineer, SarafEx Company

2023/09 – 2023/12 | contract

- **Deployed containerized workloads on Kubernetes** and tuned pod autoscalers for consistent SLA compliance.

### Achievements:

- Architected Kubernetes clusters with integrated Ceph storage.
- Automated microservices deployments using Helm charts.
- Hardened security and optimized performance per CIS benchmarks.

## Python Developer, Lifeweb Company

2022/03 – 2022/12 | full-time

- **Engineered distributed web-crawling infrastructure** for enterprise data pipelines.
- **Operated** production servers with proactive hardening and incident response.

### Achievements:

- Built a distributed, message-driven web-crawling system that extracts, indexes, and stores large volumes of data in real time.
- Optimized performance via multithreading and distributed processing techniques.
- Configured secure production servers with automated config-management.

## Back-End Engineer, Aasood Company

2021/07 – 2022/03 | full-time

- **Architected microservices-based** e-commerce platform.
- **Oversaw code reviews and mentored team** members to ensure quality.

### Achievements:

- Engineered scalable microservice architecture for e-commerce.
- Developed competitive-intelligence crawlers for market analysis.

- Defined development standards and led mentoring programs.

### **Back-End Developer, Pishdad Company**

2019/05 – 2020/02 | full-time

- **Built an online dry-cleaning platform** from concept to deployment.

#### **Achievements:**

- Maintained Linux servers serving the application.
- Contributed to frontend development

### **Web Developer, Organization of Agricultural Engineering and Natural Resources**

2017/02 – 2020/02 | part-time, Qazvin

- **Created web applications** tailored to organizational needs.
- **Managed WordPress sites** with custom themes & plugins.

#### **Achievements:**

- Engineered a dynamic form system for automated project assignments.
- Delivered responsive web solutions for organizational requirements

## **EDUCATION**

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### **M.Sc | Artificial Intelligence and Robotics**

2019 – 2022

### **Bachelor | Software engineering**

2015 – 2019