

# Ehsan Asadi

DevOps Engineer

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## PROFILE

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DevOps Engineer with a software development background, specializing in automation, orchestration, and infrastructure. Focused on designing and building reliable, highly available systems that simplify processes, enhance collaboration, and empower teams to deliver high-quality software. Open to exploring new opportunities and collaborating on projects that drive innovation and efficiency.

## PROFESSIONAL EXPERIENCE

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### DataOps Engineer

2024/10 – present | full-time

*SnappFood Company*

- **Enhanced DevOps and CI/CD workflows** by integrating pre-production staging and testing processes using GitLab CI and Argo CD on Kubernetes, ensuring seamless deployment and reliable production rollout of machine learning projects.
- **Optimized Linux systems and disk configurations** tailored to the specific requirements of each tool, ensuring high performance, stability, and reliability in production environments.
- **Administered Kubernetes clusters** and deployed a range of projects, including Airflow, Trino, GrowthBook, Redis, Kuma, ELK Stack, PostgreSQL, and MongoDB, ensuring high availability and efficient operation.
- **Deployed and maintained Apache Airflow**, managing the orchestration and monitoring of ETL workflows to guarantee efficient, reliable, and scalable data processing in production.
- **Implemented comprehensive monitoring solutions** with Prometheus and Grafana, configuring exporters to track services and system metrics. Integrated Alertmanager for real-time alerts and utilized Kuma for uptime monitoring and service health checks.

### DevOps Engineer

2024/04 – 2024/11 | part-time

*ICT - ITO*

- **Designed and managed virtual infrastructure** using VMware ESXi and MikroTik RouterOS, ensuring scalability and reliable connectivity.
- **Implemented and configured tools** such as Git, MinIO, MongoDB, Elasticsearch, Power BI, SQL Server, and Nextcloud to support diverse operational needs.
- **Developed CI/CD pipelines** and automated workflows using GitLab CI, enhancing deployment efficiency and reducing manual effort.
- **Built ETL processes** leveraging ELK, Kafka, MSSQL, and Power BI for seamless data processing, analysis, and visualization.
- **Deployed monitoring systems** with Alertmanager and developed custom application metrics to enhance observability and performance monitoring.

### DevOps/SysOps Engineer

2022/12 – 2024/10

*Lifeweb Company*

full-time, ehsankhorram72@gmail.com

- **Deployed and managed Kubernetes clusters** integrated with Ceph Storage, enabling distributed and fault-tolerant solutions.
- **Developed and maintained CI/CD pipelines** with GitLab CI and Jenkins, ensuring smooth integration with project repositories for efficient development workflows.
- **Administered over 300 Linux servers** on VMware ESXi, performing server hardening, network troubleshooting, and comprehensive system administration tasks.
- **Implemented centralized access management** with Vault and Keycloak, incorporating SSO and OTP for secure SSH access.
- **Set up robust monitoring systems** using ELK and Filebeat for log analysis, and deployed Prometheus, Grafana, and Alertmanager for performance tracking and alerting.
- **Automated backups and configuration management** with Python scripts and Ansible, improving efficiency and system reliability.

### Python Developer

2022/03 – 2022/12

*Lifeweb Company*

full-time, ehsankhorram72@gmail.com

- **Designed and managed scalable web crawling and scraping systems** using Python, with a custom architecture for efficient handling of complex websites. Integrated **RabbitMQ**, **MongoDB**, and **Elasticsearch** to optimize performance and availability in distributed environments.
- **Enhanced system performance** through **multi-threading**, **multi-processing**, **caching**, and designing **distributed architectures** with load balancing, replication, and sharding.

- **Managed server tasks**, including installations, configurations, hardening, and troubleshooting, ensuring stable and secure production environments.

### Back-End Engineer

2021/07 – 2022/03

Aasood Company

full-time, ehsankhorram72@gmail.com

- **Designed and Developed a microservice-based e-commerce platform** using FastAPI, RabbitMQ, and MongoDB, focusing on scalability and modular architecture.
- **Oversaw project development** through code reviews and mentoring, ensuring high standards and stability.
- **Implemented web crawling solutions** to collect and analyze competitor data, supporting product strategy optimization.

### Back-End Developer

2019/05 – 2020/02

Pishdad Company

full-time, ehsankhorram72@gmail.com

- **Configured and managed Linux servers** for hosting and deployment, including Apache web servers.
- **Built and deployed web applications** with Django, enabling features like user registration, order tracking, and secure payments.
- **Improved user experiences** through responsive UIs and dynamic features using JavaScript and Ajax.

### Web Developer

2017/02 – 2020/02 | part-time, Qazvin

Organization of Agricultural Engineering and Natural Resources

- **Designed a resource management system** using PHP and JavaScript, automating project assignments and creating dynamic forms with customizable fields.
- **Customized WordPress websites** for user-friendly, responsive designs, meeting diverse business needs.

## SKILLS

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### Hard skills

- **Containerization and Orchestration:** Kubernetes, Docker, Docker Swarm
- **Virtualization and Cloud Infrastructure:** VMware ESXi, Oracle VM VirtualBox, Ceph Storage, MinIO, Terraform, Vagrant
- **CI/CD & Automation Tools:** Jenkins, GitLab CI, ArgoCD, Ansible, Helm
- **Monitoring and Logging:** Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana)
- **Networking and Security:** Nginx, HAProxy, Keepalive, MikrotikOS, Vault, Keycloak, OPNsense
- **Databases and Message Brokers:** PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, RabbitMQ, Apache Kafka, Clickhouse
- **Programming Languages and Frameworks:** Python, FastAPI, Django, Django REST Framework (DRF), Flask
- **Web Technologies:** Web Crawling, Web Scraping
- **Software Architecture and Design:** Microservices Architecture, Object-Oriented Programming (OOP), Design Patterns, SOLID Principles
- **Version Control and Collaboration:** Git, GitLab
- **Big Data & Data Engineering:** Airflow, Trino, Growthbook, Rudderstack, Hive Metastore, Apache Iceberg

### Soft Skills

Problem-solving, Teamwork, Adaptability, Creativity

## EDUCATION

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### M.Sc | Artificial Intelligence and Robotics

2019 – 2022 | Qazvin

Islamic Azad University

### Bachelor | Software engineering

2015 – 2019 | Zanjan, Hidaj

Islamic Azad University