Ehsan Asadi DevOps Engineer

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PROFILE

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

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 and maintained Kubernetes clusters, deploying and managing** a range of servises, including Airflow, Hive Metastore, datahub, Trino, GrowthBook, Redis, Kuma, ELK Stack, PostgreSQL, and MongoDB, ensuring high availability and etc.
- **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 – present | part-time
AIO

- **Deployed, 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 Engineer   2023/09 – 2023/12 | part-time
SarafEx Company

- **Designed and deployed Kubernetes clusters** with Ceph storage. Managed Kubernetes using Portainer and Rancher, and deployed components like Kafka, Redis, RabbitMQ, MongoDB, PostgreSQL, Seq, and QuestDB using Helm charts.
- **Performed server hardening**, security configurations, and system tuning and optimizing kernel for workload-specific performance.

DevOps/SysOps Engineer   2022/12 – 2024/10 | full-time
Lifeweb Company

- **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

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, DataHub

Soft Skills
  Problem-solving, Teamwork, Adaptability, Creativity

EDUCATION

M.Sc | Artificial Intelligence and Robotics   2019 – 2022 | Qazvin
Islamic Azad University

Bachelor | Software engineering   2015 – 2019 | Zanjan, Hidaj
Islamic Azad University