

Hadi Azaddel

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SUMMARY

Site Reliability Engineer with 10 years of hands-on experience in software development and high-performance stateless services with a back-end development background. I have worked with various DevOps-related tools, including container technology, clouds, orchestration, configuration management, IaC, and monitoring. Open to relocation; eligible for UK Skilled Worker visa.

EXPERIENCE

AsaCo (Agah Securities) | Site Reliability Engineer

April 2023 – Present

Platform team in the second-largest trade broker in Iran

- Managed multiple Kubernetes clusters with more than 100 nodes.
- Automated cluster provisioning and fleet management (Sameness) using Terraform, Ansible/AWX, and Argocd AoA strategy, Helm, Kustomize.
- E2E automation and GitOps strategy, overseeing 100+ Git repositories and GitLab CI pipelines.
- Experienced with AWS services, including EC2, EKS, ECS, IAM, and S3 focused on scalable infrastructure and container orchestration.
- Developing Kubernetes Operators with Kubebuilder/Golang to manage network policies, monitoring and PaaS.
- Bootstrap clusters in fully isolated and air-gapped environments using Kubespray/Rancher/RKE2.
- Kubernetes Security: Implement customized policies with Gatekeeper (OPA) and zero-trust network, alongside compatibility with legacy agents(IAM and Log), middleware(firewalls + UTMs) and compliances.
- Technical Lead of the Platform Team of 11 members, responsible for technical planning, solution architecture, and implementation of OKR strategies in a large finance company with 80 DevOps engineers and SREs.

Sootoon Cloud Provider | Site Reliability Engineer

October 2021 – April 2023

Content Delivery Network (CDN) Team

- Maintained DNS servers, firewall(DDoS mitigation), CDN network, and load balancing using BGP(Anycast), L4 LB(Katran) and DNS.
- Managing about 45 bare-metal servers all around the country and worldwide that form the CDN edge network.
- Deploying and maintaining various workloads on the Kubernetes cluster. Besides, I developed K8S operators based on Kube-Builder.
- Design all operations on servers to be automated by Ansible role/collections. Providing end-to-end automation that increases server provisioning speed by 5x compared to legacy solutions. Also, I developed Unit/E2E tests for the automation codes by Ansible, Molecule, and Python.
- Troubleshooting Anycast network issues daily for a 300Gbps network. Worked with CDN users to understand needs and resolve issues, optimizing content delivery solutions.
- Implement alerts and recording rules based on Prometheus and Alertmanager. Also, add unit testing for almost 30% of alerts/rules.
- Gained familiarity with GCP services, particularly GKE, with hands-on experience in cloud deployments and familiarity with Proxmox as the virtualization

Arman AI | Software Engineer/DevOps

August 2019 – October 2021

PaaS Team in Arman AI

Adapting company services/micro-services to be run in docker/docker-compose.

- Provided standards for different levels of software testing (unit, integration, and load tests). More than two-thirds of the tests were automated, resulting in periodic and CI/CD-integrated (e.g., Load tests) or in CI/CD pipelines (e.g., Unit tests).
- Guided AI service integration with modern DevOps, setting SLOs, tracking SLIs for reliability, and communicating design rationales to the AI team and stakeholders.
- Provide Monitoring (Prometheus + VictoriaMetrics), Error tracing (Sentry), and Alert Management (Grafana) for different services/microservices.
- Developing PaaS API Gateway and prepare authentication / authorization, request throttling, and billing of the product containing almost 40 Artificial Intelligence services.

ParsIoT | Co-Founder/Software Engineer

June 2015 – August 2019

Co-Founder of ParsIoT startup

- Developed high-level and low-level designs (HLD/LLD) to meet diverse business requirements in a dynamic startup environment.
- Backend developer (Golang/Python): Implementing ML algorithms run as Golang and Python services and facing high-load workloads (1000/100000 RPS/TPS).
- Django developer and collaboration on some Web Penetration Test projects and familiarity with fundamental web vulnerabilities .

OPEN-SOURCE PROJECTS

Free-me

Ansible

github.com/hadi2f244/free-me

- A versatile Ansible collection for proxy and VPN clients such as http/https proxy for apt and container runtimes, v2ray / singlebox, openvpn, etc.

DSN (django-signal-notifier)

Python, Django, PyPi

github.com/hadi2f244/django-signal-notifier

- *django-signal-notifier* is a notification package for Django assessed sending notifications through various channels such as email and social media. I have leveraged it in multiple projects, thus I completed it and added proper documents as an open-source project.

Parsin Platform

Golang, Python, Android Java Native, IoT

github.com/ParsIOT/ParsinServer

- Parsin is a server-side indoor positioning framework. It consists of multiple projects to provide a positioning solution for different platforms such as Android, iOS, and real-time tag tracking.

SKILLS

Containerization	Kubernetes(CKA, CKS) Docker
Cloud	AWS GCP
IaC	Ansible Terraform
CICD	Gitlab-CI Argocd Jenkins
Monitoring	Prometheus Grafana VictoriaMetrics

Language	Python Golang
OS	Linux
Soft-Skills	Management Problem-Solving Effective Communication Capacity-Planning
Other	Helm Kustomize Kubebuilder Kubespray

EDUCATION

MSc. Computer Networks Engineering

2016 - 2018

Tehran, Iran

Publications:

- SPOTTER: A novel asynchronous and independent WiFi and BLE fusion method based on particle filter for indoor positioning, In Internet of Things (Elsevier, 2023)
- Improving Multi-floor WiFi-based Indoor positioning systems by Fingerprint grouping, In 5th International Conference on Internet of Things and Applications (IEEE, 2021)

BSc. Computer Networks Engineering

2012 - 2016

Tehran, Iran

MAIN ACHIEVEMENTS:

- Maintaining Kubernetes clusters with over 100 nodes.
- Maintaining and load balancing a CDN network with 300 Gbps of traffic across different service providers.
- Proficiency in IaC and CM tools including Ansible and Terraform.
- 4 years of experience developing backend projects based on Golang and Python.
- Proficiency in Linux Operating system
- As a technical lead, drove team alignment, strategic planning and agile team management.