

PERSONAL INFORMATION

Mohammad Yosefpor

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Date of birth 15 June 1996

JOB APPLIED FOR

DevOps Engineer

WORK EXPERIENCE

Apr 2020 – Now



Cloud Engineer at Snapp Cloud

Key Result ownership:

- Research, design, implementation, and fine-tuning a new region based on **OKD4**. Investigating migration plan and required benchmarking and testing to make sure it is production ready.
- Researching and performing a major upgrade on under production-load OKD routing layer (ingress-controllers), and edge loadbalancers in an in-placed manner.
- Developing custom exporters in **Golang** with **prometheus-sdk**, for synthesized (active) monitoring of routing, dns, APIs and user operations uptime and performance.
- Researching, and designing a new DNS architecture for our k8s, and performing a migration on k8s node internal dns from Dnsmasq to **CoreDNS**.
- Backporting some features, and fixed some issues in code of **CSI** components to reduce failures and speed up the operations (external-attacher/external-provision/cinde-csi/ in-tree csi and volume-manager components in kubelet and a/d controller)

Regular tasks:

- Maintaining and Improving a multitenant PaaS for Snapp production services with **OpenShift-OKD**.
- Practicing serious Infra as Code (IaC): Writing HCL (**Terraform** code) for provisioning and **Ansible** playbooks/roles for configuration. We've always made sure our repo represents production env.
- Creating CI/CD pipelines with **Gitlab-ci** and **ArgoCD** for our IaC to: validate, lint, build, unit-test, integration-test, dry-run and deploy.
- Continuous Improvement of our monitoring and alerting (**prometheus,grafana,exporters**)
- Maintenance of **Openstack** as underlying platform for OpenShift.
- Maintenance of **Ceph** for providing underlying storage for Openstack.
- Participating in a 24/7 On-Call rotation for high load production cloud servers maintenance.
- Creating **Helm** charts, Ansible runbooks for day-2 operations, tech documentations.

Feb 2020 – Apr 2020



DevOps Engineer at Hasin Cloud

Provisioning, Configuring, Deployment and maintenance of different services such as:

- HA **Kubernetes** cluster by **Kubespray**.
- **Calico** for east-west and **ingress-nginx** controller for north-south traffic.
- Providing StorageClass with **Rook-Ceph** operator
- Monitoring and alerting with **Prometheus** and **Grafana**.
- Regular Tasks: Automation with bash and **ansible** playbooks/roles. creating technical docs.

Oct 2019 – Feb 2020



DevOps/SRE at SINA Innovative Communications System

Provisioning, Configuring, Deployment and maintenance of different services such as:

- IMS containerized microservices stack on top of a HA **DockerSwarm** cluster.
- Configuration and deployment of **CoreDNS** as a DNS server and also for service discovery.
- Providing Monitoring stack with **Prometheus** and **Grafana**.
- **EFK** stack (Elasticsearch, Fluentd and Kibana) for log aggregation.
- **Nginx** as a reverse-proxy for caching, load balancing, and encryption (TLS).
- CI/CD pipeline using **Jenkins** with poll SCM trigger to build, test and deploy the software.
- Regular Tasks: Automation with bash and **ansible** playbooks/roles. creating technical docs.



Intern at Institute for Research in Fundamental Sciences (IPM)

- Working in ILSF-Group which is one of the largest scientific projects in the history of Iran.

EDUCATION

2018 – 2020



M.Sc. in Physics - Thesis: 'Entanglement Detection using Machine Learning'

Sharif University of Technology, Tehran. GPA: 18.05

2013 – 2018



B.Sc. in Electrical Engineering and B.Sc. in Physics (Dual Degree)

Khaje Nasir Toosi University, Tehran. Electrical GPA: 18.50 , Physics GPA: 19.03

TECHNICAL SKILLS

Soft Skills

- Handling KRs and Epics From OKR to production: Researching the most important ideas to hit the KR, comparing alternatives for pros and cons and time estimates, coordinating/cooperating with team, creating roadmap, fine-tuning, benchmarking, HA tests, DR tests, user and admin docs, rollback plan, user communications and canary/rolling release on production.
- Designing HA and scalable systems with no SPOF, considering affinity and failure domains, changing active/passive setups to active/active (if feasible), determining bottle-necks and capacity planning.
- Handling incidents, communicating the issue properly to users, debugging, troubleshooting and tracing down the issue to its root cause, finding short term and long term next steps, writing RCA.

Linux & Network

- Over 4 years experience in **Linux** (Completed **LPIC2** course)
- Deep understanding of **TCP/IP** and **TLS** (Completed **CCNP** routing and switching course)

Programming

- Experienced in **Golang** including operator-sdk, kubernetes-sdk, prometheus-sdk, terratest,...
- Experienced in **Python** including ansible-module development
- Experienced in **Bash** scripting
- DS and Algorithms as demonstrated in ICPC-ACM and CodeCup Competitions.
- Familiar with **C/C++**. I was TA for a C++ Programming Course in Khaje Nasir University.

NOTABLE TOOLS

Highly skilled at

Kubernetes, **OpenShift-OKD**(3&4), **Ansible**, **Terraform**, **Prometheus**, **CSI**, **CoreDNS**, **CNI**, **HAProxy-k8s-Ingress**

Experienced in

Docker, **Containerd**, **Runc**, **Etcd**, **Gitlab-ci**, **ArgoCD**, **Helm**, **Dnsmasq**, **Docker-Registry**, **Fluentd**, **Fluentbit**, **Telegraf**, **Grafana**, **ELK**, **Ceph**, **Rook**, **KVM-QEMU**, **Openstack** (Nova, Cinder, Glance, keystone, ironic,...), **Nginx**, **keepalived**

Good Familiarity with

Dragonfly, **FCOS-Ignition**, **Metalb**, **Packer**, **CRI-O**, **Calico**, **Istio**, **Thanos**, **Containers**(podman-buildah-skopeo)

Shallow knowledge

Contour, **SaltStack**, **Kubeadm**, **DockerSwarm**, **Jenkins**, **Glusterfs+Heketi**,

SELECTED OSS CONTRIBUTIONS



Ansible

Promoted to maintainer ([link](#)) of ansible terraform module.
Authored, Co-Authored, Reviewing and Merging PRs ([link](#))



Infracost

Contributor in multiple repos: Infracost, Infracost-gitlab-ci, infracost-gh-action, ... ([link-gh](#)) ([link-gl](#))

Other Notables

fluent-bit-kubernetes-logging ([PR74](#))

HONORS AND AWARDS



14th place, Contestant at The 2014 ACM International Collegiate Programming Contest (ICPC) Asian Regional Contest in Iran.

15th place, Coach at The 2015 ACM International Collegiate Programming Contest (ICPC) Asian Regional Contest in Iran.



Dual Degree

Ranked 1st

Konkour

30th place, Code Cup quera programming competition in Iran, 2016.

Qualified for studying **two majors simultaneously (Dual Degree)** as a distinguished student.

Ranked 1st among all undergraduate students (138 students) in electrical engineering and also **1st** among all undergraduate students (40 students) in Physics department.

Ranked **3rd** in Konkour for Masters degree in the field of Physics in Iran, 2018.

SELECTED TEACHING EXPERIENCE

Fall 2019

Teaching Assistant for "Machine Learning", Sharif University of Technology

Spring 2015

Teaching Assistant for "Fundamentals of Computer and Programming", Khaje Nasir University

PUBLICATIONS

IOP Science

Finding semi-optimal measurements for entanglement detection using autoencoder neural networks, M. Yosefpor, M. Mostaan, S. Raeisi. [Quantum Science and Technology](#), vol. 5 no. 4.

ADDITIONAL INFO

Languages

Native in Persian, Full proficiency in English

On-call 24/7
Eager to learn

Ready to work on non-working hours and staying up all night whenever is necessary
Craving to continuously learn new stuff from anyone/any-source