

PERSONAL INFORMATION

Mohammad Yosefpor

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Date of birth 15 June 1996

WORK EXPERIENCE

Apr 2020 – Now



Senior Cloud Engineer at Snapp Cloud

Key Result ownership:

- Research, design, implementation, and fine-tuning a new PaaS platform based on **K8s, OKD, Ceph, Openstack** and many other **CNCF** tools in multiple regions. Also maintaining, improving and upgrading production PaaS, IaaS and Storage on-prem platforms for SnappGroup (Cab, Box, Doctor).
- Backporting features, fixing issues (in our local forks) and sometimes contributing to upstream opensource tools mentioned above.
- Developing Golang apps including custom k8s controllers with controller-runtime and kubebuilder, custom prometheus exporters with prometheus-sdk, other custom plugins and extensions for other CNCF projects and developing specific new components for cloud platforms.

Regular tasks:

- Practicing serious Infra as Code (IaC): Writing HCL (**Terraform** code) for provisioning and **Ansible** playbooks/roles for configuration, **Helm** charts. We've always made sure our repo represents production env, and a new region could be spin up in less than an hour.
- 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 central multi-tenant monitoring and alerting solution (**thanos, prometheus, grafana, exporters**)
- Participating in a 24/7 On-Call rotation for high load production cloud servers maintenance.

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.

Jun 2016 – Sep 2016



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 KR's 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 **LPIC3 304** course)
- Deep understanding of **TCP/IP** and **TLS** (Completed **CCIE** routing and switching course)

### Programming

- Experienced in **Golang** including grpc, hugo, kubebuilder, 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**, **CoreDNS**, **Prometheus**, **CSI**, **CNI**, **CRI-O**, **ArgoCD**

### Experienced in

**Docker**, **HAProxy**, **Runc**, **Etcd**, **Gitlab-ci**, **Helm**, **Dnsmasq**, **Fluentd**, **Telegraf**, **ELK**, **Ceph**, **Rook**, **KVM-QEMU**, **Openstack** (Nova, Cinder, Glance, keystone, Ironic,...), **Nginx**, **keepalived**, **FCOS-Ignition**, **MetalLB**, **Thanos**, **Grafana**, **Harbor**, **Istio**, **Containers**(podman-buildah-skopeo)

### Good Familiarity with

**Dragonfly**, **OPA**, **Jaeger**, **Packer**, **Calico**, **Contour**, **SaltStack**, **Envoy**, **Cert-manager**, **Kyverno**, **Loki**, **Dex**, **Consul**, ...

## SELECTED OSS CONTRIBUTIONS



Authored and contributed to many repos on snapp-cab org [view link](#)



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



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

### Other Notables

Also you can view some of my contributions to other notable OSS projects including **openshift**, **ansible**, **argocd**, **coredns**, etc : [view link](#)

## HONORS AND AWARDS

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**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.



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

Dual Degree

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

Ranked 1st

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

Konkoor

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

## SELECTED TEACHING EXPERIENCE

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Fall 2021

Teaching "Cloud Native Golang in K8s" course, Shaid Beheshti University

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

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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

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Languages

Native in Persian, Full proficiency in English

On-call 24/7

Ready to work on non-working hours and staying up all night whenever is necessary

Eager to learn

Craving to continuously learn new stuff from anyone/any-source