

## PERSONAL INFORMATION

### Mohammad Yosefpor

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## WORK EXPERIENCE

Apr 2024 – Now



### Principal Engineer at Sotoon Cloud

- Contributed to the strategical roadmaps and architectural designs of scalable, high-performance cloud solutions for Sotoon Cloud, a public Cloud Company which provides **IaaS, KaaS, PaaS, DBaaS, CDN, DNS**, etc.
- Collaborated with senior leadership to align engineering initiatives with business objectives.
- Architected and implemented an advanced access management system for servers, VMs, and control panels, utilizing **WireGuard, IAM**, and reverse tunnel with **ZTNA** architecture.
- Spearhead the company-wide security strategy, establishing metrics, KPIs, scoring mechanisms, and actionable plans for ongoing security enhancement.

Nov 2021 – Apr 2024



### Cloud Tech Lead at Snapp

- Design, implementation, and fine-tuning a new PaaS platform based on **K8s, OKD, Ceph, Open-stack** and many other **CNCF** tools in multiple regions and Datacenters. Also maintaining, improving and upgrading production PaaS, IaaS and Storage on-prem platforms for SnappGroup (Cab, Box, Doctor).
- Developing multiple plugins and projects for CNCF projects, and developing many **k8s operators** and **k8s controllers** using Golang.
- Forking and maintaining a modified version of multiple open-source projects (**CSI controllers and drivers, coredns, argocd, contour ingress controller**,...) to customize it for our needs and integrate it with other internal components.
- Developing a query based authN and authZ system with **golang** for multi-tenant access of different components with a centralized access control.
- Code review and providing solutions design for different developed components.
- Pairing with and mentoring cloud engineers.

Mar 2020 – Nov 2021



### Senior Cloud Engineer at Snapp

- Developing **Golang** apps including **operators** and **k8s controllers** with **operator-sdk, 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.
- Designing **Cluster Mesh** networking with **Cilium** for multi-DC networking.
- Research, deploy, and fine-tuning of different services on kubernetes including different operators on kubernetes, argo stack (**argoCD, argo-rollouts, argo-workflow**), **thanos, prometheus, loki, elk, certmanager, consul, kyverno** and many more CNCF projects.
- Changing **CNI** plugin of OKD clusters without down time from openshift-sdn to **openshift-ovn** and later from openshift-ovn to **Cilium**.
- Implemented and managed **Cinder-CSI** and **Ceph-CSI** in multiple clusters, and also providing and implementing a solution for the migration of volumes between different OpenStack clusters and transitioning volumes from Cinder CSI to Ceph CSI.
- Upgrading k8s clusters in production without downtime.
- Practicing serious Infra as Code (**IaC**): Writing HCL (**Terraform** code) for provisioning and **Ansible** playbooks/roles for configuration, **Helm** charts.
- Creating CI/CD pipelines with **Gitlab-ci** and **ArgoCD** for our IaC to: validate, lint, build, unit-test, integration-test, dry-run and deploy.
- Participating in a 24/7 On-Call rotation for high load production cloud servers maintenance.

Jun 2021 – Oct 2022



## DevOps Consultant at SnappDoctor

- Dockerizing services for k8s and migrating the production services from VM to k8s.
- Creating and designing Infrastructure as Code (IaC) for provisioning VMs on Openstack and **Ansible** playbooks/roles for configuration, and **Helm** charts for k8s apps.
- Designing and creating a fully automated CICD pipelines with **Gitlab-ci** and **ArgoCD**.
- Designing and deploying monitoring and alerting structure for services, and log forwarding solution to a central **Loki** stack.
- Providing documentations and easy workflow for developers to have self-service multi-tenant experience.

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.

Jul 2017 – Oct 2019



## Software Engineer at BehCloud

- Providing VM and hosting service.
- Providing devops tools as a service (gitlab, rocketchat, email, ldap, ...).

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 - Quantum Computer Science

Sharif University of Technology, Tehran.

GPA: 4.0/4.0

Thesis: Quantum Entanglement Detection using Machine Learning

2013 – 2018



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



Khaje Nasir Toosi University, Tehran.

Physics GPA: 4.0/4.0

Electrical Engineering GPA: 3.9/4.0

## TECHNICAL SKILLS

### Programming

- Experienced in  **Golang**: Proficient in using various libraries and frameworks, including **Operator-SDK**, **Kubebuilder**, **controller-runtime**, **gRPC**, **Prometheus-SDK**, **BDD(ginkgo, gomega)**, **web(echo, fiber, gin)**, **terratest** and others.
- Experienced in  **Python**
- Experienced in **Bash** scripting
- DS and Algorithms as demonstrated in ICPC-ACM and CodeCup Competitions.

### Linux & Network

- Over 8 years experience in **Linux** (Completed **LPIC3 304** course)
- Deep understanding of **TCP/IP** and **TLS** (Completed **CCIE** routing and switching course)











### Soft Skills

- **Strategic Planning and Team Collaboration**: Conducting thorough research to identify key ideas for achieving organizational goals. Evaluating alternatives, working closely with team members to create a detailed roadmap. Fostering a cooperative team environment by providing mentorship, encouraging open communication, and actively involving all members in the plannings.
- **Effective Communication and Problem Solving**: Communicating issues to users and stakeholders clearly. Demonstrating problem-solving skills by troubleshooting, and tracing issues to root causes. Formulating immediate and long-term solutions in detailed RCA reports.

## NOTABLE TOOLS

### Highly skilled at

Besides extensive production experience handling high loads and optimizing for scale, I possess a deep understanding of exact internal workflows, have contributed to and forked their components, and have solid knowledge of their codebases:

 **Kubernetes**,  **OpenShift-OKD**,  **Argo**,  **CoreDNS**,  **CSI** (controllers and ceph-csi/cinder-csi),  **CNI**,  **CRI-O**,  **Contour** ingress-controller,  **Capi** (controllers and openstack-provider),  **Casdoor**

### Experienced in

Extensive production experience in managing high loads and tuning for scalability, ensuring robust and efficient performance:

 **Terraform**,  **Docker**,  **HAProxy**,  **Envoy**,  **Cilium**,  **Multus**,  **Ansible**,  **Prometheus**,  **Runc**,  **Kyverno**,  **Etcd**,  **Gitlab-ci**,  **Helm**,  **MetalLB**,  **Thanos**,  **Grafana**,  **Loki**,  **ELK**,  **Ceph**,  **Rook**,  **Dnsmasq**,  **Fluentd**,  **Telegraf**,  **KVM-QEMU**,  **Openstack** (Nova, Cinder, Glance, keystone, ironic,...),  **Nginx**, **keepalived**,  **FCOS-Ignition**,  **Harbor**,  **Containers**(podman-buildah-skopeo),  **Cert-manager**,  **Keycloak**,  **Dex**,  **Consul**

### Good Familiarity with

I understand the concepts, have researched them, and conducted testing in staging and proof-of-concept environments:

 **Istio**,  **Dragonfly**,  **OPA**,  **Jaeger**,  **Packer**,  **Calico**,  **SaltStack**,  **Kubevirt**, and more.

## SELECTED OSS CONTRIBUTIONS

### **Snapp**

Authored and contributed to many repos on snapp-cab org, including numerous **operators** and **kubernetes controllers**, **coredns plugins**, **k8s webhooks**, etc: [view link](#)

### Other Notables

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

## 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

Full proficiency in English, Native in Persian

### On-call 24/7

Ready for being oncall