# **ARSHIA AKHAVAN**

## **Undergraduate Student of Computer Engineering**

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**♀** Tehran, Iran



## PROFESSIONAL EXPERIENCE

ArshiAAkhavan

#### Software Engineer

in arshia-akhavan

#### Sotoon

# Jan 2023 - Currently

▼ Tehran, Iran

Sotoon is a B2B cloud provider which focuses on different aspects of Cloud Computing, such as hardware abstraction, Providing storage servers, DNS, CDN, Bigdata solution and managed k8s cluster. I worked in the K8s as a Service team. Experiences:

- Using SIGS/Cluster-api to provide bootstrapping and operations as a service for k8s.
- Develop and Maintain SotoonCSI, a CSI implementation that integrates with Sotoon's storage backend.
- Develop **node-AutoScaler** for k8s cluster which integrates with Sotoon's Computation backend to reduce customers' costs.
- Develop and maintain a CCM module to provide loadbalancers for k8s clusters using sotoon's compute infrastructure.
- Provide additional cluster plugins such as **DNS** and **CNI** as an automated solution.
- Plan and Lead Migration of over 100 customers' k8s-clusters to the new infrastructure with zero downtime.

## **Data Platform Engineer**

#### Digikala

**Aug** 2021 - Jan 2023

▼ Tehran, Iran

Digikala is the largest e-commerce company in Iran with 40+ million users. As a member of the Bigdata & AI team, my job is to provide the necessary infrastructure needed to store and process the data accumulated from the users. Experiences:

- Developing Karavan, a Parallel Processing Engine for data pipelines on top of Apache Spark.
- Reducing Computation time of our Pipelines by revising our data retrieval models and Queries.
- Reducing latency of our API by locating critical paths in the codebase of the framework and optimizing them.
- Using **K8s** as the main orchestrator with **Ceph** as our storage backend; provided a variety of tools for the DS/DE team to work with, including **Airflow** as our job scheduler and **Spark** as our main batch/stream processor and pipeline engine.
- maintain Kafka cluster as a Sync and Debezium to sync external Databases to it.
- Manage the platform's infrastructure based on **GitOps** protocols using **argoCD**. Automate deployment of our APIs using ArgoCD with **Kustomize** and **Helm charts**.
- Deploy and maintain a staging environment and build a framework for our Data Science team to better interact with our infrastructure.

### DevOps Engineer

#### **Tapsell**

Mov 2019 - Aug 2021

▼ Tehran, Iran

Providing the infrastructure needed by other technical teams in the corporation. Experiences:

- Managing and automating deployment procedures of databases such as MongoDB, Cassandra, and ElasticSearch with
- Optimizing Cassandra's **Disk usage** for different workloads
- Developing a fully automated backup, validity check, and restore tool for managing our backups in a cloud native infrastructure
- Deploy and maintain a fully functional staging cluster using k8s as its main orchestrator.
- Develop CI/CD flows for our company using GitlabCI.
- Working with **Terraform** to automate deploying our infrastructure on **VMWare**.
- Administrating Linux-based virtual machines and addressing network issues and bottlenecks and improving our overall performance based on it.

## SecOps Engineer

#### **Amnban Gostar Sharif**

Marg 2019 - Nov 2019

▼ Tehran, Iran

Starting my career as a SecOps intern in this company and learned the basic concepts of network security and penetration-testing.

## **VOLUNTEER EXPERIENCE**

### Technical Chapter

#### Student's Scientific Chapter (SSC)

Marg 2020 - Aug 2021

▼ Tehran, Iran

Maintain Technical resources owned by SSC and supervise technical requirements of events held by SSC

# Chief of Infrastructure and System Team

## Sharif AI Challenge 2021

m Dec 2020 - May 2021

▼ Tehran, Iran

Develop and deploy a **scalable infrastructure/software** for Al challenge's **high demanding game engine**. **GitHub** 

#### **Chief Technical Staff**

#### **ICPC**

▼ Tehran, Iran

**Build contest-customized OS images** and distribute them on contestant hosts using **Network boot**.

Manage and configure hosts used by contestants and **monitor their connectivity**.

**Restrict external access and host to host access** of each contestant's host device.

# Chief Technical Staff ICPC west championship

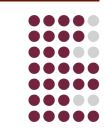
₩ Dec 2019

▼ Tehran, Iran

Manage and configure hosts used by contestants and **monitor their connectivity** 

# PROGRAMMING LANGUAGES

Rust Go C Bash Python Java SOL



# **TECHNOLOGIES**



## **LANGUAGES**

English	
French	
Persian	••••

# **EDUCATION**

B.Sc. in Computer Engineering Sharif University of Technology

Mathematics and Physics Diploma Helli High-school (Sampad)