ARSHIA AKHAVAN

Undergraduate Student of Computer Engineering

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in arshia-akhavan   ○ ArshiAAkhavan

PROFESSIONAL EXPERIENCE

Software Engineer

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 **SIG/Cluster-api** for providing a k8s cluster boostraping and operations as a service.
- **Hiding Control-plane** from customers and fully manage it.
- Providing **Additional cluster plugins** such as DNS and CNI as an automated solution.
- Develop **our own CSI** to better interact with our storage team.
- Developing **AutoScaler** for k8s cluster to reduce costumers costs.
- Develop our own **CCM** module to better interact with the underlying compute infrastructure

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

📅 Nov 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 **Ansible**
- 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

📅 Aug 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)

📅 Aug 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

📅 Dec 2020 – May 2021   📍 Tehran, Iran

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

Chief Technical Staff

ICPC

📅 May 2023   📍 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**
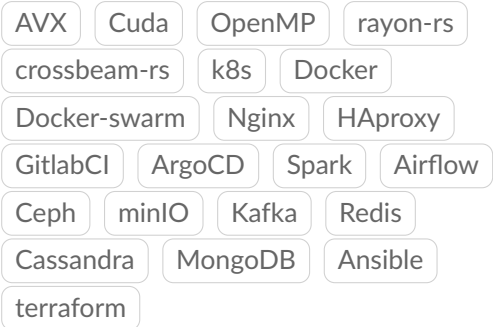
PROGRAMMING LANGUAGES

Rust	●●●●○
Go	●●●●○
C	●●●○○
Bash	●●●●○
Python	●●●●○
Java	●●●○○
SQL	●●●●●

TECHNOLOGIES

AVX   Cuda   OpenMP   rayon-rs
crossbeam-rs   k8s   Docker
Docker-swarm   Nginx   HAproxy
GitlabCI   ArgoCD   Spark   Airflow
Ceph   minIO   Kafka   Redis
Cassandra   MongoDB   Ansible
terraform

LANGUAGES

English   ●●●●○

French   ●●●○○

Persian   ●●●●●

EDUCATION

B.Sc. in Computer Engineering

Sharif University of Technology

📅 Sep 2018 – ongoing

Mathematics and Physics Diploma

Helli High-school (Sampad)

📅 Sep 2010 — Jul 2018