

Amir Allahveran

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EDUCATION

B.S. in Computer Engineering

Sep 2018 – Jul 2023

Tehran, Iran

- Amirkabir University of technology
 - GPA: 17.78 / 20 (last 8 semesters)
 - Thesis topic: Kubernetes HDFS operator
 - Professor: Dr. Mahmoud Momtazpoor
 - The Kubernetes Operator for HDFS aims to make specifying and running HDFS as easy and idiomatic as running other workloads on Kubernetes. It uses Kubernetes custom resources for specifying, running, and surfacing status of HDFS.
 - Related courses:
 - Principles of Cloud Computing (18.66/20)
 - Web Programming (20/20)
 - Operating Systems (18.8/20)
 - Computer Networks (17.6/20)
 - Algorithm Design (20/20)

RESEARCH INTEREST

- Cloud Computing
- Serverless Computing
- Distributed systems
- Software Engineering
- Computer Networks
- Computer Security

TEACHING EXPERIENCE

Teacher Assistant

Feb 2021 – Jul 2021

Tehran, Iran

- Amirkabir University of Technology
 - Operating Systems teaching assistant under supervision of Dr.Ahmad Javadi

WORK EXPERIENCE

Site Reliability Engineer

Aug 2022 – Present

Tehran, Iran

- ArvanCloud

Site Reliability Engineer

Sep 2021 – Aug 2022

Tehran, Iran

- Tapsell

SKILLS

Programming and scripting languages: Golang, Python & Bash, C Programming language

Web Development: HTML & CSS, JavaScript, Flask

Tools: Kubernetes, OpenShift, Docker & Containerd, Kubebuilder, Helm, Prometheus, Grafana, AlertManager, Ansible, Gitlab CI, ArgoCD, Nginx & Ingress Nginx, HAproxy

Databases: MongoDB, MySQL, Redis, Cassandra, ELK Stack, Apache Kafka, Apache Druid

System administration: Linux LPIC-1

PROJECTS

- Hadoop and MapReduce
 - Implementation of three MapReduce application using Java programming language
- Dynamic Adaptive Streaming over HTTP
 - Implementation of website front-end and back-end which uses DASH and HLS for video streaming using python programming language
- Image histogram equalization
 - Implementation of Image histogram equalization algorithm using python programming language
- DHCP
 - Simulation of client and server in the DHCP protocol and implementation of network hosts IP assignment service using python programming language
- Movie website management
 - Implementation of movie website server side using Golang programming language
- Kubernetes setup
 - Implementation of kubernetes cluster with HA masters, then setup mariadb galera cluster in k8s cluster and setup monitoring stack to create dashboard for mariadb cluster using Ansible

CERTIFICATES	<ul style="list-style-type: none"> ▪ Cloud Computing Basics (Cloud 101) 	
LANGUAGES	<ul style="list-style-type: none"> ▪ English: Fluent (TOEFL exam will be taken on October 29, 2022) ▪ Persian: Native language 	
HONORS AND REWARDS	<ul style="list-style-type: none"> ▪ Awarded as University's Exceptionally Talented Student 	2018,2019