Amir Allahveran

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EDUCATION

B.S. in **Computer Engineering** — Sep 2018 – Jul 2023

- Amirkabir University of technology — Tehran, Iran
  - GPA: 3.8/4 (17.78/20)
  - Thesis topic: Design and Implementation Kubernetes HDFS operator
    - The Kubernetes Operator for HDFS aims to make specifying and running HDFS as easy as running other workloads on Kubernetes. It uses Kubernetes custom resources for specifying, running, and surfacing status of HDFS.
    - Supervisor: Dr. Mahmoud Momtazpoor
  - 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
- Distributed systems
- Computer Networks
- Serverless Computing
- Software Engineering
- Computer Security

TEACHING EXPERIENCE

Teaching Assistant — Sep 2022 – Present

- Amirkabir University of Technology — Tehran, Iran
  - Web Programming teaching assistant under supervision of Dr.Parham Alvani

Teaching Assistant — Feb 2021 – Jul 2021

- Amirkabir University of Technology — Tehran, Iran
  - Operating Systems teaching assistant under supervision of Dr.Ahmad Javadi

WORK EXPERIENCE

Site Reliability Engineer — Aug 2022 – Present

- ArvanCloud — Tehran, Iran

Site Reliability Engineer — Sep 2021 – Aug 2022

- Tapsell — Tehran, Iran

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 applications 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

- Cloud Computing Basics (Cloud 101)

LANGUAGES

- English: Fluent (TOEFL exam will be taken on October 29, 2022)
- Persian: Native language