

# Amir Allahveran

✉ amir79allahvern@gmail.com    AmirAllahveran    AmirAllahveran    amirallahveran.github.io

## EDUCATION

### B.S. in **Computer Engineering**

Sep 2018 – Present

Tehran, Iran

- Amirkabir University of technology
  - GPA: 3.8/4 (17.78/20)
  - Thesis topic: Kubernetes HDFS Operator Design and Implementation
    - 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 the 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

Tehran, Iran

- Amirkabir University of Technology
  - Web Programming teaching assistant under supervision of Dr.Parham Alvani

### Teaching 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

**System administration:** Linux LPIC-1

## PROJECTS

- Hadoop and MapReduce
  - Implementation of three MapReduce applications using Java 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 a dashboard for Mariadb cluster using Ansible
- DHCP
  - Simulation of client and server in the DHCP protocol and implementation of network hosts IP assignment service using Python 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
- Movie website management
  - Implementation of movie website server side using Golang programming language

## CERTIFICATES

- Cloud Computing Basics (Cloud 101)

## LANGUAGES

- English: Fluent (TOEFL iBT Score: 97 [Reading: 30, Listening: 24, Speaking: 22, Writing: 21])
- Persian: Native language