

Amir Allahveran

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EDUCATION	B.S. in Computer Engineering ▪ Amirkabir University of technology • GPA: 3.77/4 (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)	Sep 2018 – Present Tehran, Iran
RESEARCH INTEREST	▪ Cloud Computing ▪ Serverless Computing	▪ Distributed systems ▪ Software Engineering ▪ Computer Networks ▪ Computer Security
TEACHING EXPERIENCE	Teaching Assistant ▪ Amirkabir University of Technology • Web Programming teaching assistant under supervision of Dr.Parham Alvani Teaching Assistant ▪ Amirkabir University of Technology • Operating Systems teaching assistant under supervision of Dr.Ahmad Javadi	Sep 2022 – Present Tehran, Iran Feb 2021 – Jul 2021 Tehran, Iran
WORK EXPERIENCE	Site Reliability Engineer ▪ ArvanCloud Site Reliability Engineer ▪ Tapsell	Aug 2022 – Present Tehran, Iran Sep 2021 – Aug 2022 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 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	