Sina Heidari

Curriculum Vitae

Personal Information

Email Address	sinaheidari@znu.ac.ir
Personal Page	https://s1naheidari.github.io
Github Page	https://github.com/S1naHeidari
Skype	ustoir

Education

University of Zanjan — Zanjan, Iran

Master's degree in Computer Software Engineering — *2021 – present*

Focused on DevOps, and Resource Management in Serverless Computing Environments
GPA: 18.33 (out of 20); 4 (out of 4 using WES insturction)
Rank: 1st in class
Graduation: April 2023 (anticipated)

University of Kurdistan — Sanandaj, Iran

Bachelor degree in Computer Software Engineering — *2016 – 2021*

Focused on Data Science, Linux Operating System, Virtualization and System Programming.
GPA (last two years): 3.57
Overall GPA: 15.79 (out of 20)

Research Interests

- Serverless Computing
- Fog/Edge Computing
- Distributed Systems
- Cloud Computing
- Internet of Things
- Machine Learning

Work in Progress

Sina Heidari, Sadoon Azizi, "QoS-aware and Energy-aware Resource Scheduling in Serverless Computing environments" 27th International Computer Conference, Computer Society of Iran, LINK

Research Experience

University of Kurdistan

Data Science Lab Member — *2018 – 2021*

Project: Data Exploratory Analysis (DEA) and Solution for Six Kaggle Challenges.
(Recommender Systems, Tweet Sentiment Extraction, Toxic Comment Classification,
M5 Time Series Forcasting, Abstraction and Reasoning, Indoor Location and Navigation)
Supervisor: Dr. Parham Moradi

Internet of Things Lab Member — *2020 – present*

Focused on Latency-Aware Virtual Machine and Container Placement in Cloud/Fog Environments Based on Kubernetes
Supervisor: Dr. Sadoon Azizi

University of Zanjan

Master's Thesis, Department of Electrical and Computer Engineering — *2021 – present*

Title: Deep Reinforcement Learning for QoS-aware and Energy-aware Resource Scheduling in Serverless Computing
Supervisor: Dr. Majid Meghdadi
Co-supervisor: Dr. Sadoon Azizi

Teaching Experience

University of Kurdistan

Teaching Asistant *Summer 2017 & Fall 2017*

Course title: Fundamentals of Computer and Programming
Responsibilities: Holding classes weekly and marking assignments.
Dr. Sadoon Azizi

Teaching Asistant *Winter 2018*

Course title: Advanced Programming (Java)
Responsibilities: Holding classes weekly and marking assignments.
Dr. Rojiar Pir Mohammadiani

Test Scores

TOEFL	104: (R) 27 (L) 28 (S) 22 (W) 27	April, 2022
GRE	Registered to be taken in November 18, 2022	

Skills

- Professional C and C++ Programming
- Professional Python Programming
- Kubernetes Adminstration
- GNU/Linux Adminstration
- Virtualization/Cloud: Docker, AWS, Virtualbox, Vagrant, Xen, Ansible, Prometheus, CloudSim and EC2
- Data Science & Machine Learning: Scikit-learn, Pandas, NumPy, PyTorch, Selenium and NLTK
- Programming: Java, Golang, Java Script, Fortran, Bash and Git
- Web Backend Development: Flask, Django and Laravel

Awards and Honors

Granted, National University Tuition Waiver (including partly necessary expenses) 2016
Ranked 7th, among all 135 engineering students in the University of Zanjan (1st in class)

Academic Projects

Software Engineering Project: Ticket Management System
Information Retrieval System Using Inverted Index and TF-IDF
An API Server Developed Using Flask and Tested with 100% Test Coverage
Vagrant and Ansible Scripts to Create a Kubernetes Cluster on Virtual Machines
A Persian Poem Search Engine Developed in Java Using Ganjoor Dataset
Popularity-based and Model-based Collaborative Filtering to Recommend Products to Users
Data Exploratory Analysis and Solution for Tweet Sentiment Extraction Challenge
Data Exploratory Analysis and Solution for Toxic Comment Classification Challenge
Data Exploratory Analysis and Solution for M5 Forecasting - Accuracy Challenge
Data Exploratory Analysis and Solution for Abstraction and Reasoning Challenge
Data Exploratory Analysis and Solution for Indoor Location & Navigation
Evaluating the Performance of the Hysteretic Q-Learning in the Ball-Balancing Task

References

Dr. Sadoon Azizi	s.azizi@uok.ac.ir	Website	Google Scholar
Dr. Parham Moradi	p.moradi@uok.ac.ir	Website	Google Scholar
Dr. Majid Meghdadi	meghdadi@znu.ac.ir	Website	Google Scholar
Dr. Rojiar Pir mohammadiani	r.pirmohamadiani@uok.ac.ir	Website	Google Scholar