

Sina Heidari *July 31, 1997*

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 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: 3.26

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)

Research Interests

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

Sina Heidari, Sadoon Azizi, "QoS-aware and Energy-aware Resource Scheduling in Serverless Computing" 27th international computer conference, computer society of iran, [LINK](#)

Research Experience

University of Kurdistan 2018 – 2021
Data Science Lab Member
Project: Data Exploratory Analysis (DEA) and Solution for Six Kaggle Challenges.
(Recommender Systems, Tweet Sentiment Extraction, Toxic Comment Classification, M5 Time Series Forecasting, 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 2021 – present
Master's Thesis, Department of Electrical and Computer Engineering
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. Rojia Pir Mohammadiani

Test Scores

TOEFL 104: (R) 27 (L) 28 (S) 22 (W) 27 APRIL, 2022

Skills

- Professional C and C++ Programming
- Professional Python Programming
- Kubernetes Adminstration
- GNU/Linux Adminstration
- Virtualization/Cloud: Docker, AWS, Virtualbox, Vagrant, Xen, Ansible, 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

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

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|----------------------------|--|-------------------------|--------------------------------|
| 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. Rojia Pir mohammadiani | r.pirmohamadiani@uok.ac.ir | Website | Google Scholar |