Sadjad Rezvani

PERSONAL
INFORMATION

E-mails: sadjadrezvani@shahroodut.ac.ir linkedin: linkedin.com/in/sadjadrz
web: https://sadjadrz.github.io Mobile: +99 (990) 099-5452

EDUCATION

Shahrood University of Technology, Shahrood, Semnan Province, Iran

Master of Science in computer Engineering – artificial intelligence   Sep. 2020 – Sep. 2022
- GPA: **4**/4 , **18.59**/20
- Thesis: "Masked face recognition using deep learning"
- Advisor: Mansoor Fateh

Shahrood University of Technology, Shahrood, Semnan Province, Iran

Bachelor of Science in computer Engineering – Softwares   Sep. 2015 – Sep. 2019
- GPA: **3.53**/4 , **16.92**/20
- Thesis: "Profiling web applications to improve intrusion detection"
- Advisor: Mohsen Rezvani

RESEARCH
INTERESTS

Machine Learning, Image Processing, Deep Learning, Generative AI, Image Reconstruction, Medical Image Analysis

JOURNAL
PUBLICATIONS

S. Rezvani, M. Fateh and H. Khosravi," ABANet: Attention Boundary-Aware Network for image segmentation." Expert systems, e13625, May 2024
S. Rezvani, F. Soleymani Siahkar, Y. Rezvani, A. Alavi Gharahbagh and V. Abolghasemi, "Single Image Denoising via a New Lightweight Learning-Based Model." IEEE Access, August 2024
S. Rezvani, M. Fateh, A. Fateh and Y. jalali. "FusionLungNet: Multi-scale Fusion Convolution with Refinement Network for Lung CT Image Segmentation." biomedical signal processing and control, (Under Review July 2024).

WORK
EXPERIENCE

Shahaab, CO.
Role: *Senior Computer Vision Software Engineer*
Project: Face Recognition Engine   Oct. 2022 – Dec. 2023

- Designed and implemented various features of a face recognition
  engine utilizing advanced computer vision techniques
- Created a user interface for demo purposes
- **Technical Skills:** C++, OpenCV, C#

Cement Factory, Shahrood, Iran
Role: *Senior Computer Vision Engineer*
Project: Fire Detection Software   Jul. 2022 – Nov. 2022

- Contributed to a fire detection software project that leveraged computer
  vision techniques to detect fires and alert relevant authorities in real-time
- **Technical Skills:** OpenCV, Pytorch

Hookan Salt Factory, shiraz, Iran
Role: *Senior Computer Vision Software Engineer*
Project: Salt Crack Sorting Machine   Nov. 2020 – Sep. 2021

- Worked on a project focused on detecting salt impurities in a manufacturing process
- Utilized advanced image processing techniques to detect salt impurities in real-time
- **Technical Skills:** OpenCV, Python, C#, C++

Shahaab, CO
Role: *Senior Software Engineer*
Project: Plate Recognition Software,   Jun. 2019 – Dec. 2023

- Contributed to the development of a desktop software that connects to CCTV cameras, recognizes license plates, and stores data
- Contributed to the ongoing maintenance and improvement of the software
- **Technical Skills:** C#, SQL

PROGRAMMING SKILLS

- Programming: Python, C++, C#
- Machine Learning: PyTorch, TensorFlow, Scikit-Learn, Numpy
- Computer Vision: OpenCV
- Database: Microsoft SQL Server, MySQL

ACADEMIC EXPERIENCE

Research Assistant

CVLab   Dec. 2021 – Sep. 2022

- As part of my thesis research, I researched image reconstruction techniques for masked face recognition.
- Mentored newly-arrived M.Sc. students to help with their proposals.

Teaching Assistant

Deep Learning	Spring 2022
Advance Software Engineering (for Bachelor Students)	Fall 2019
Database (for Bachelor Students)	Fall 2019,2018

HONOURS AND AWARDS

A member of Iran's National Elites Foundation	2023
Third-ranked student in the master of Science in Computer Science program	2022

CERTIFICATIONS

AI for Medical Diagnosis, DeepLearning.AI, Coursera	2023
Python Project for Data Science, IBM ,Coursera	2022
Generative Adversarial Networks (GANs) Specialization, DeepLearning.AI , Coursera	2022
Machine Learning, Stanford University, Coursera	2021

REFERENCES

Mansoor Fateh
Associate professor, Department of Computer Engineering, Shahrood University of Technology , Shahrood, Iran
e-mail: mansoor_fateh@Shahroodut.ac.ir
Phone: +98 (912) 373-8057

Hossein khosravi
Associate professor, Department of Electrical Engineering, Shahrood University of Technology , Shahrood, Iran
e-mail: hosseinKhosravi@ Shahroodut.ac.ir
Phone: +98 (936) 139-2929