

Sadjad Rezvani

PERSONAL INFORMATION	<div>Semnan Science and Technology Park Shahaab CO Shahrood, Semnan Province, Iran Marital Status: Single web: <a href="https://sadjadrz.github.io">https://sadjadrz.github.io</a></div> <div>E-mails: <a href="mailto:sadjadrezvani@shahroodut.ac.ir">sadjadrezvani@shahroodut.ac.ir</a> linkedin: <a href="https://www.linkedin.com/in/sadjadrz">linkedin.com/in/sadjadrz</a> Mobile: +99 (990) 099-5452 Zoom ID: 555 454 0514</div>
EDUCATION	<div><b>Shahrood University of Technology</b>, Shahrood, Semnan Province, Iran <i>Master of Science in computer Engineering – artificial intelligence</i> Sep. 2020 – Sep. 2022<ul style="list-style-type: none"><li>GPA: 4/4 , <b>18.59</b>/20</li><li>Thesis: “Masked face recognition using deep learning”</li><li>Advisor: Mansoor Fateh</li></ul></div> <div><b>Shahrood University of Technology</b>, Shahrood, Semnan Province, Iran <i>Bachelor of Science in computer Engineering – Softwares</i> Sep. 2015 – Sep. 2019<ul style="list-style-type: none"><li>GPA: <b>3.53</b>/4 , <b>16.92</b>/20</li><li>Thesis: “Profiling web applications to improve intrusion detection”</li><li>Advisor: Mohsen Rezvani</li></ul></div>
RESEARCH INTERESTS	Machine Learning, Image Processing, Deep Learning, Generative AI, Image Reconstruction, Medical Image Analysis
JOURNAL PUBLICATIONS	<b>S. Rezvani</b> , M. Fateh and H. Khosravi,” ABANet: Attention Boundary-Aware Network for image segmentation.” Expert systems, e13625, May 2024 <b>S. Rezvani</b> , F. Soleymani Siahkar, Y. Rezvani, A. Alavi Gharahbagh and V. Abolghasemi, ”Single Image Denoising via a New Lightweight Learning-Based Model.” IEEE Access, (Revised and Resubmitted July 2024). <b>S. Rezvani</b> , 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	<div><b>Shahaab, CO.</b> Role: <i>Senior Computer Vision Software Engineer</i> Project: Face Recognition Engine Oct. 2022 – Dec. 2023<ul style="list-style-type: none"><li>My project for passing military service</li><li>Designed and implemented various features of a face recognition engine utilizing advanced computer vision techniques</li><li>Created a user interface for demo purposes</li><li><b>Technical Skills:</b> C++, OpenCV, C#</li></ul></div> <div><b>Cement Factory, Shahrood, Iran</b> Role: <i>Senior Computer Vision Engineer</i> Project: Fire Detection Software Jul. 2022 – Nov. 2022<ul style="list-style-type: none"><li>Contributed to a fire detection software project that leveraged computer vision techniques to detect fires and alert relevant authorities in real-time</li><li><b>Technical Skills:</b> OpenCV, Pytorch</li></ul></div> <div><b>Hookan Salt Factory, shiraz, Iran</b> Role: <i>Senior Computer Vision Software Engineer</i> Project: Salt Crack Sorting Machine Nov. 2020 – Sep. 2021<ul style="list-style-type: none"><li>Worked on a project focused on detecting salt impurities in a manufacturing process</li><li>Utilized advanced image processing techniques to detect salt impurities in real-time</li><li><b>Technical Skills:</b> OpenCV, Python, C#, C++</li></ul></div>

## 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

Role: *Teaching Assistant*

Instructor: Dr. Mansoor Fateh

Spring 2022

##### Advance Software Engineering (for Bachelor Students)

Role: *Teaching Assistant*

Instructor: Dr. Hoda Mashayekhi

Fall 2019

##### Database (for Bachelor Students)

Role: *Teaching Assistant*

Instructor: Dr. Mohsen Rezvani

Fall 2019

Instructor: Mohsen Farhadi

Fall 2018

### HONOURS AND AWARDS

Recognition by Iran's National Elites Foundation for excellence in military service

2023

Third-ranked student in the master of Science in Computer Science program

2022

### CERTIFICATIONS

AI for Medical Diagnosis, DeepLearning.AI

2023

Python Project for Data Science, IBM

2022

Generative Adversarial Networks (GANs) Specialization, DeepLearning.AI

2022

Machine Learning, Stanford University

2021

### REFERENCES

Mansoor Fateh

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