

# ALIREZA SABER

Shahrood, Semnan, Iran

Phone: (+98)9193747484

Email: [alireza.saber095@gmail.com](mailto:alireza.saber095@gmail.com)

Website: <https://alirezasa7.github.io>

## EDUCATION

**Master in Computer Engineering, Software Orientation**, Islamic Azad University, Shahrood Branch  
GPA: 3.66 (out of 4)

2020-2024

Dissertation: Interpretable Yoga pose classification using deep learning methods

Supervisor: Dr. Mohammad Mehdi Hosseini

**Bachelor's Degree in Computer Engineering, Information Technology**, Shahrood University of Technology

2014-2019

GPA: 2.39 (out of 4)

Supervisor: Dr. Marzie Rahimi

## RESEARCH INTERESTS

- Machine Learning and Deep Learning
- Artificial intelligence for medical image analysis
- Optimization Algorithms
- Computer Vision and Image Processing
- Data processing
- Transfer Learning

## PUBLICATIONS

### Published Articles

- Alireza Saber, Amirreza Fateh, Pouria Parhami, Alimohammad Siahkarzadeh, Mansoor Fateh, Saideh Ferdowsi “Efficient and Accurate Pneumonia Detection Using a Novel Multi-Scale Transformer Approach”, Sensors

### Revised Articles

- Alireza Saber, Mahdieh Sharifi Fakhim, Amirreza Fateh, Mansoor Fateh, “A Lightweight Multi-Scale Refinement Network for Gastrointestinal Disease Classification”, Expert Systems with Applications

### Under Review Articles

- Alireza Saber, Mohammad Mehdi Hosseini, Mansoor Fateh, Amirreza Fateh, Vahid Abolghasemi, “Lightweight Multi-Scale Framework for Human Pose and Action Classification”, PeerJ Computer Science

## RESEARCH EXPERIENCE

### Research Assistant

2024-Present

Faculty of Computer Engineering, Shahrood University of Technology, at [CVLab SHUT](#)

- Working on computer vision tasks and medical image analysis under supervision of Dr. Mansoor Fateh
- Design and build interpretable and lightweight AI models in medical area
- Collaboration in the peer-review process of academic manuscripts, evaluating methodology and contribution to the field.

## TEACHING EXPERIENCE

### Teaching assistant

2022

Decision Support Systems, Islamic Azad University

- Graded assignments and exams to provide tailored feedback based on course expectations and outcomes

## **Programming Instructor**, C# and java, Noor Afshan Organization

2016-2017

- Taught introductory and intermediate programming courses to groups of students with diverse technical backgrounds

## **WORK EXPERIENCES**

### **Web developer**, Stickywebdesign, Tehran, Iran

2021-2022

- Building and designing frontend web pages
- Editing images and videos for advertisement and page design

## **INTERNSHIPS**

- An internship passed in Keyghobad Knowledge Enterprise, shahrood, Iran

2018

## **LANGUAGE PROFICIENCY**

- Fluently bilingual in English and Persian
- My mother tongue is Persian
- IELTS academic certificate for English with overall score of 7

## **SKILLS**

### **Software and IT Skills**

- **Programming languages**, Python, java, C++, CSS and HTML
- **Deep learning frameworks**, PyTorch, TensorFlow, Keras, Pandas, Matplotlib

### **Soft Skills**

- Strong communication skills, teamwork skills, hardworking, focused

## **AWARDS AND HONORS**

- Being among top3 graduated students in master
- Studied in a gifted high school
- Obtained fourth place in the provincial volleyball tournament

## **REFERENCES**

- **Referee 1** **Dr. Mansoor Fateh**  
Associate Professor at Shahrood University of Technology  
[mansoor\\_fateh@shahroodut.ac.ir](mailto:mansoor_fateh@shahroodut.ac.ir)

- **Referee 1** **Dr. Mohammad Mehdi Hosseini**  
Assistant Professor at the Islamic Azad University, Shahrood Branch  
[Hosseini\\_mm@shahroodut.ac.ir](mailto:Hosseini_mm@shahroodut.ac.ir)

- **Referee 2** **Dr. Abdolvahab Ehsani Rad**  
Assistant Professor at the Islamic Azad University, Shahrood Branch  
[vahabrad@iau.ir](mailto:vahabrad@iau.ir)