

# ALIREZA SABER

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## BIO

I received my M.Sc. degree in Software Computer Engineering from IAU, Iran. My research interests focus on deep learning and computer vision, with particular emphasis on attention mechanisms, transformer-based architectures, and multi-scale feature representation. I have designed and implemented advanced deep learning models for complex real-world classification problems, including applications involving clinically relevant visual data. I am currently seeking a Ph.D. position in the field of artificial intelligence, with research interests spanning computer vision, image processing, and medical AI applications.

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## EDUCATION

**Master in Computer Engineering, Software Orientation**, Islamic Azad University, Shahrood Branch 2020-2024  
GPA: 3.66 (out of 4)  
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

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## RESEARCH INTERESTS

- Machine Learning and Deep Learning
  - Artificial intelligence for medical image analysis
  - Multimodal
  - Computer Vision and Image Processing
  - Generative AI
  - Data processing
  - LLM
  - Model optimization
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## PUBLICATIONS

### Published Articles

- **Alireza Saber**, Mahdieh Sharifi Fakhim, Amirreza Fateh, Mansoor Fateh, "[A Lightweight Multi-Scale Refinement Network for Gastrointestinal Disease Classification](#)", Expert Systems with Applications
- **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
- **Alireza Saber**, Mohammad Mehdi Hosseini, Mansoor Fateh, Amirreza Fateh, Vahid Abolghasemi, "[Lightweight Multi-Scale Framework for Human Pose and Action Classification](#)", Sensors

### Under Review Articles

- Sadjad Rezvani, **Alireza Saber**, Vahid Abolghasemi  
LiteFusion-Former: A Lightweight Hybrid CNN–Transformer with External Memory and Dual Spatial Attention for Real-Time gastrointestinal Image Classification, IEEE Transactions on Neural Networks and Learning Systems

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## RESEARCH EXPERIENCE

### Research Assistant

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

2024-Present

- Working on computer vision tasks and medical image analysis
- Collaboration in the peer-review process of academic manuscripts, evaluating methodology and contribution to the field.

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## TEACHING EXPERIENCE

Teaching assistant, Decision Support Systems, Islamic Azad University

2022

- 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

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## WORK EXPERIENCES

Web developer, Stickywebdesign, Tehran, Iran

2021-2022

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

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## INTERNSHIPS

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

2018

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## LANGUAGE PROFICIENCY

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

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## SKILLS

### Software and IT Skills

- **Programming languages**, Python, java, C++, C#, CSS and HTML
- **Deep learning frameworks**, PyTorch, TensorFlow, Keras, Pandas, Matplotlib
- **Software**: Latex, Microsoft Office, Adobe Photoshop, Adobe Premiere

### Soft Skills

- Strong communication skills, teamwork skills, hardworking, focused, curious

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## AWARDS AND HONORS

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