

Yasin Rezvani

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EDUCATION

Sep 2022 – Present **Shahrood University of Technology** [🔗](#)
Shahrood, Iran *Bachelor's degree, Computer Engineering | Overall GPA: 3.01/4.00 | Major GPA: 3.29/4.00*

RESEARCH EXPERIENCE

Jan 2024 – Present **CVLab SHUT** [🔗](#)
Shahrood, Iran *Computer Vision Research Intern | Designing brain MRI dataset and deep learning segmentation models.*

Feb 2023 – May 2023 **Shahaab** [🔗](#)
Shahrood, Iran *Computer Vision Research Intern | Enhancing Persian OCR for license plate recognition via deep learning.*

PUBLICATIONS

Jun 2025 **BRISC: Annotated Dataset for Brain Tumor Segmentation and Classification with Swin-HAFNet** [🔗](#)
*arXiv preprint | A. Fateh, *Y. Rezvani*, S. Moayedi, S. Rezvani, F. Fateh, M. Fateh*

Aug 2024 **Single Image Denoising via a New Lightweight Learning-Based Model** [🔗](#)
*IEEE ACCESS | S. Rezvani, F. S. Siabkar, *Y. Rezvani*, A. A. Gharabagh, V. Abolghasemi*

Mar 2019 **The serious water crisis and our responsibility against it** [🔗](#)
*Third National Conference on Modern Approaches to Education and Research | *Y Rezvani*, A Rezvani*

VOLUNTEER EXPERIENCE

Jun 2024 – Present **Peer Reviewer** [🔗](#)
IEEE Access | Reviewed ten computer vision articles, enhancing research skills and advancing the field.

Jun 2023 – May 2024 **Data Collection and Image Annotation Assistant** [🔗](#)
Expert Systems–Wiley | Created MFSD for ABANet with Python and scraping, refining deep learning data.

Jul 2019 – Sep 2019 **Speaker** [🔗](#)
TED-Ed Student Talks | Presented U-Health, using AI to improve remote access to medical services.

PROJECTS

Jan 2024 – Present **Hands-On Machine Learning and Deep Learning with Python** [🔗](#)
Implemented and evaluated deep learning models for brain MRI analysis at CVLab SHUT

- **Supervisor:** Dr. Mansoor Fateh [🔗](#)

Mar 2024 – Jul 2024 **Image Denoising Using FFT and DnCNN** [🔗](#)
Image Filtering and Denoising Using Traditional Methods and Deep Learning.

- **Supervisor:** Dr. Esmaeel Tahanian [🔗](#)
- **Course:** Engineering Mathematics

Feb 2024 – Jun 2024 **Maurice Mano CLI and GUI Assembler** [🔗](#)
Developed a dual-interface assembler (CLI/GUI) for converting machine language.

- **Supervisor:** Mr. Mohsen Farhadi [🔗](#)
- **Teaching Assistant:** Mr. Amirreza Vafayi
- **Course:** Computer Architecture

Apr 2024 – Jul 2024 **Polynomial Operations CLI and GUI Calculator** [🔗](#)
Perform various polynomial operations, such as addition, subtraction, multiplication, reversal, and evaluation

- **Supervisor:** Mr. Ali Bazghandi [🔗](#)
- **Course:** Computer Laboratory

- May 2024 – Jul 2024 **Audio Denoising Using FFT and CNN** [↗](#)
Reducing audio noise using signal processing and deep learning.
- **Supervisor:** Dr. Esmael Tahanian [↗](#)
 - **Course:** Engineering Mathematics
- Sep 2023 – Jan 2024 **Object Oriented Restaurant Management System** [↗](#)
Object-oriented Java application for restaurant management with CRUD and file receipts.
- **Supervisor:** Dr. Bahareh Javid [↗](#)
 - **Teaching Assistants:** Mr. Behnam Saghari, Ms. Asal Salmani
 - **Course:** Advanced Programming
- Feb 2023 – May 2023 **Real-Time Tic Tac Toe 2 Player CLI Game** [↗](#)
Interactive Tic-Tac-Toe CLI game in C++ with real-time board updates, win detection, and replay.
- **Supervisor:** Mr. Ali Bazghandi [↗](#)
 - **Teaching Assistants:** Mr. Foad Ataei, Ms. Amirhossein Kazemzadeh
 - **Course:** Fundamentals of Computer and Programming

SELECTED COURSEWORK

- Advanced Programming (4.00/4.00)**
- Computer Architecture (3.20/4.00)**
- Data Structures (3.48/4.00)**
- Electrical Circuits (3.90/4.00)**
- Engineering Mathematics (3.06/4.00)**
- Fundamentals of Computer and Programming (3.20/4.00)**
- Microprocessor & Assembly Language (4.00/4.00)**
- Operating Systems (3.07/4.00)**

SKILLS

Python | C/C++ | Java | GitHub/Git | SciPy | NumPy | Pandas | Seaborn | OpenCV | Matplotlib |
PyTorch | TensorFlow | Keras | Prompt Engineering | Jupyter Notebook | Google Colab (GPU/TPU model training)

CERTIFICATES

- Scopus Academy: Research Collaborations Module** [↗](#) (Elsevier, June 2025)
- Prompt Engineering for Everyone** [↗](#) (Cognitive Class, Feb 2024)
- Supervised Machine Learning: Regression and Classification** [↗](#) (Coursera, Feb 2024)
- Machine Learning with Python** [↗](#) (Cognitive Class, Jan 2024)
- Learning Python** [↗](#) (LinkedIn, Aug 2022)

LANGUAGES

English — Fluent

Persian — Native/Bilingual

REFERENCES

Mansoor Fateh, *Associate professor*, Department of Computer Engineering, Shahrood University
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Hossein Khosravi, *Associate professor*, Department of Electrical Engineering, Shahrood University
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