

Alireza Fadaei

Email: [alireza.fad98 at gmail.com](mailto:alireza.fad98@gmail.com)

Website: arfadaei.ir

Education

- MS** [Azad University, Najafabad Branch](#), Software Engineering Sep 2022
Thesis: “Optimized Deep Learning Model for Web Attack Detection in Dew Computing”
Advisor: [Dr Barekatain](#).
• Current GPA: (3.77 in the 0-4 scale)
- BS** [University of Isfahan](#), Computer Engineering Sep 2017
Thesis: “Design and Implementation of an Advanced ADS-B-Based Aircraft Observation System”
Advisor: [Dr Bohlooli](#).

Research Interests

- **Machine Learning:** Federated Learning, Deep Learning
- **Computer Networks:** Cloud Computing, Internet of Things (IoT), Network Security
- **Cybersecurity:** Cryptography, Vulnerability Management, Intrusion Detection Systems
- **Blockchain**

Selected Courses

Master:

Advanced Computer Networks
17.5/20
Cloud Computing
17/20

Software Architecture
17.5/20
Advanced Software Engineering
16.25 /20

Data Mining
17/20
Advanced Network Security
18.85/20

Bachelor:

Operating Systems
18.04 /20
Computer Networks
16.25/20

Internet Engineering
17.24/20
Algorithm Design
16/20

Computer Architecture
17/20
Compiler Design
20/20

Selected Academic Projects

- **Course Name:** Advanced Computer Networks
 - **Project Title:** Virtual Desktop Infrastructure (VDI) Implementation
- **Course Name:** Cloud Computing
 - **Project Title:** Implementation of Gang Scheduling Algorithm using CloudSim Simulator
- **Course Name:** Artificial Intelligence
 - **Project Title:** Optimal Routing Algorithm Implementation in Competitive Mouse and Cheese Game

Teaching Experience

- **Back-End Programming Instructor** at the [Dana Cup](#) Competition April 2024
- **Teaching Assistant** at University of Isfahan, Isfahan, Iran.
 - Compiler Design, Fall 2021 Dr. Asadi
 - Fundamentals of Programming, Fall 2020 Dr. Asadi
 - Computer Workshop, Winter 2020 [Dr. Bohlooli](#)

- *Mathematics Teacher at Technical and Vocational School* 2018 - 2019
- *Python Instructor at Faculty of Agriculture at Isfahan University of Technology* 2021

Working Experience

- *Head of the Computer Department at [Kabir Technical and Vocational School](#)* Apr 2024 - Present
- *Software Developer at Fardaad, [\(ISTT\)](#), Isfahan, Iran* Jul 2022 – Present
I specialize in patch and vulnerability management software, designing algorithms, adding features, and improving tool performance.
- *Backend Developer at [Meta Menu](#), [Poytek](#), Isfahan, Iran* Dec 2021 – Jul 2022
This is a [startup](#) project that operates in the field of providing a comprehensive system for managing cafes and restaurants.
- *Backend Developer at [PCG Lab](#), [IUT](#), Isfahan, Iran* Dec 2021 – May 2022
This [project](#) presents in-depth information from a biotechnology research paper, offering valuable insights in the field.
- *Apprentice at ICTI, [IUT](#), Isfahan, Iran* Jun 2021 – Sep 2021
I have learned about the ADS-B system and acquired practical experience in setting up ADS-B stations for real-time data analysis.
- *Web Developer at [Fapsco](#), [\(ISTT\)](#), Isfahan, Iran* Jun 2020 – Sep 2020

Honors and Awards

- The best bachelor's thesis of the Computer Engineering Department at the University of Isfahan in the winter semester of 2022.
- First rank in the Master's degree program in Software Engineering at Azad University, Najafabad Branch, in the winter semester of 2023.
- First rank in the Master's degree program in Software Engineering at Azad University, Najafabad Branch, in the fall semester of 2023.

Test Scores

- **TOEFL (December 2023):** IBT 84/120
Reading (20/30), Listening (23/30), Speaking (20/30), Writing (21/30)
- **Duolingo (January 2024):** 130/160
Literacy (130), Comprehension (140), Conversation (115), Production (110)
- **Preparing for TOEFL (Scheduled for November 2025)**

Skills

- **Programming Languages:** Python, C, C++, Java, Matlab and VHDL
- **Machine Learning and Data Science:** Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook
- **Markup Languages:** HTML, CSS and SASS
- **Web Development:** Django, Django Rest Framework, Flask, WordPress, REST APIs, Web Service APIs
- **Database Management:** MySQL, PostgreSQL and MongoDB
- **Web Server Administration:** Apache and Nginx
- **Virtualization and Cloud Technologies:** VMware vCenter, VMware ESXi, CloudSim, VDI
- **Linux Certification:** LPIC1 (Linux Professional Institute Certification)
- **Middleware and Messaging:** Celery and Redis
- **Containerization:** Docker