

Mohammad Hosein Ashoori

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Education

Vali-e-Asr University of Rafsanjan **Rafsanjan, Iran**
B.Sc. Computer Engineering, CGPA: 16.34/20 (3.47/4) with 140 credits passed *2018–2022*

- Last Two years GPA: 17.17/20 (3.8/4)
- CGPA: 16.34/20 (3.47/4) with 140 credits passed
- Thesis: To Be Expected, It's about Community Detection.
- Focus: Software Engineering.
- University's average GPA: 14.14/20, Computer Engineering's average GPA: 14.03/20

Publications

- Fahimeh Dabaghi-Zarandi, Mohammad Mehdi Afkhami, **Mohammad Hosein Ashoori**, Parsa KamaliPour, Mohammad Amin Ahmadi, "Solving community detection problem using evolutionary algorithm in social networks" (*in preparation*)

Experience

Research

Undergraduate Research Assistant **Rafsanjan, Iran**
Department of Computer Engineering, Vali-e-Asr University of Rafsanjan *Mar 2022–Present*

- Supervisor: Dr. Fahimeh Dabaghi-Zarandi
- Field: Community Detection
- My responsibilities: Gain information, Implementing different approach

Teaching

Undergraduate Teaching Assistant **Rafsanjan, Iran**
CE Department, Vali-e-Asr University of Rafsanjan

Discrete Mathematics
Dr. Fahimeh Dabaghi-Zarandi, Head TA *(Spring 2022, Fall 2021)*

Data Structures
Dr. Fahimeh Dabaghi-Zarandi, TA *(Spring 2022, Fall 2021)*

Design and Analysis of Algorithms
Dr. Fahimeh Dabaghi-Zarandi, TA *(Spring 2022, Fall 2021)*

Database
Dr. Mojtaba Sabbagh-Jafari, TA *(Fall 2022)*

Artificial Intelligence
Dr. Amir Hossein Hadjhamadi, TA *(Fall 2022)*

Fundamentals of Programming
Dr. Amir Hossein Hadjhamadi, TA *(Fall 2022)*

Instructor for The Summer Coding Bootcamp *(Summer 2022)*
Vali-e-Asr University Scientific Association of Computer Engineering
Teaching to develop windows application using Flutter based on MVC architecture
Teaching to develop APIs using Django

Industry Work

Mobile Application Developer (Flutter) **Montreal, CA (Remote)**
Fast Learning App *Feb 2022–Present*

Research Interests

- Medical Image Computing
- Data Science
- ML
- Bioinformatics
- Community Detection

Selected Relevant Coursework

Fundamental of Programming: 20/20

Data Mining: 19.5/20

Theory of Machines & Languages: 17.9/20

Design and Analysis of Algorithms: 17/20

Software Engineering: 17.75/20

Software Engineering Lab: 18/20

Information Retrieval: 18.5/20

Click here to see more [↗](#)

Advance Programming: 18.75/20

DB Lab: 18.5/20

DB Design and Implementation: 17/20

Design and Analysis of Algorithms: 17/20

Computer Architecture: 17/20

Artificial Intelligence: 18.5/20

Programming Language Design: 17/20

Test Scores

TOEFL: Not taken yet

GRE: Not taken yet

Extra Curricular Activities

Head Of The Association

Computer Engineering Scientific Association
Vali-e-Asr University of Rafsanjan

May 2020–Jun 2021

Member Of Scientific Staff

Computer Engineering Scientific Association
Vali-e-Asr University of Rafsanjan

May 2019–Jun 2022

Member of Executive Staff

Video Games Association
Vali-e-Asr University of Rafsanjan

Oct 2020–Jun 2021

Selected Projects

Medical Image Processing with PyTorch [↗](#)

All of my related work in medical image processing, such as working with dicom, cnn, functional api, and using pretrained models (transfer learning), is housed in this repo.

Summer 2022

Estate Price Predictor Using TensorFlow [↗](#)

Predict estate price by combining house info(MLP) and its picture(CNN)

Spring 2021

Add and Remove Noise In/From Audio [↗](#)

One project regarding to the Signals and Systems course

Fall 2021

An application for efficient learning with creating quizzes and flashcards [↗](#)

One project regarding to the Database course

Fall 2021

Computer skills

Application Development: Flutter, Django

Programming Languages: Python, R, C, C++, Dart, MATLAB, Java, SQL

Frameworks & Libraries: Scikit-learn, Matplotlib, Scipy, NetworkX, Cython, Dicom, TensorFlow, PyTorch, Torchserve

Software Engineering: Refactoring, Debugging, Unit Testing, Agile methodology, Scrum methodology

Tools: Jupyter Notebook, R Studio, L^AT_EX, Git, Markdown

Others: Linux, MS Office, Adobe Photoshop & Xd, Research & Searching ability

Languages

Persian: Native language

English: Fluent

Interests

Sports: Table Tennis, Chess

References

Available upon Request

[December 20, 2022]