

# 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: 17.19/20 (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*)
- Fahimeh Dabaghi-Zarandi, **Mohammad Hosein Ashoori**, Parsa KamaliPour, Mohammad Amin Ahmadi, Mohammad Mehdi Afkhami, "A deep learning approaches to community detection." (*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, Role: Head TA*

(Spring 2022, Fall 2021)

##### Data Structures

*Dr. Fahimeh Dabaghi-Zarandi, Role: TA*

(Spring 2022, Fall 2021)

##### Design and Analysis of Algorithms

*Dr. Fahimeh Dabaghi-Zarandi, Role: TA*

(Spring 2022, Fall 2021)

##### Operating Systems

*Dr. Fahimeh Dabaghi-Zarandi, Role: TA*

(Spring 2022)

#### Instructor for The Summer Coding Bootcamp

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

Summer 2022

#### Instructor for The Summer Coding Bootcamp

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

Summer 2022

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

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

## Selected Relevant Coursework

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<b>Fundamental of Programming:</b> 20/20	<b>Advance Programming:</b> 18.75/20
<b>Data Mining:</b> 19.5/20	<b>DB Lab:</b> 18.5/20
<b>Theory of Machines &amp; Languages:</b> 17.9/20	<b>DB Design and Implementation:</b> 17/20
<b>Design and Analysis of Algorithms:</b> 17/20	<b>Design and Analysis of Algorithms:</b> 17/20
<b>Software Engineering:</b> 17.75/20	<b>Computer Architecture:</b> 17/20
<b>Software Engineering Lab:</b> 18/20	<b>Artificial Intelligence:</b> 18.5/20
<b>Information Retrieval:</b> 18.5/20	<b>Programming Language Design:</b> 17/20

## Test Scores

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**TOEFL:** Not taken yet

**GRE:** Not taken yet

## Extra Curricular Activities

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### 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

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### Add and Remove noise in/from audio file [↗](#)

*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*

### Estate Price Predictor Using TensorFlow [↗](#)

*Estate price predictor with combining house info and its picture*

*Spring 2021*

### Medical Image Processing with PyTorch [↗](#)

*One project regarding to Design and Analysis of Algorithms course*  
using Divide and Conquer method

*Fall 2020*

## Computer skills

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**Application Development:** Flutter, Django

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

**Frameworks & Libraries:** Scikit-learn, Matplotlib, **Software Engineering:** Refactoring , Debugging, Scipy, NetworkX, Cython, Dicom, TensorFlow, Py- Unit Testing, Agile methodology, Scrum methodology  
**Tools:** Jupyter Notebook, R Studio, L<sup>A</sup>T<sub>E</sub>X, Git, **Others:** Linux, MS Office, Adobe Photoshop & Xd, Research & Searching ability

## Languages

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**Persian:** Native language

**English:** Fluent

**Gilaki:** Native language

## Interests

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**Sports:** Table Tennis, Chess

## References

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**Dr. Fahimeh Dabaghi-Zarandi**

**Rafsanjan, Iran**

*Assistant Professor, f.dabaghi@vru.ac.ir*

Department of Computer Engineering, Faculty of Engineering, Vali-e-Asr University of Rafsanjan

**Dr. Mojtaba Sabbagh-Jafari**

**Rafsanjan, Iran**

*Assistant Professor, mojtaba.sabbagh@vru.ac.ir*

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**Dr. Amirhosein Hajahmadi**

**Rafsanjan, Iran**

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[August 12, 2022]