

# Parsa KamaliPour | CV

Kerman – Iran

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## Education

### Vali-e-Asr University of Rafsanjan

Rafsanjan, Iran

B.Sc. Computer Engineering

2018–Present

- Last two years GPA without calculating summer semester: 17.37/20 (3.71/4.00)
- CGPA: 16.66/20 (3.419/4) with 124 credits passed so far
- Major Area: Software Engineering.
- Thesis: Community detection in complex network based on an improved random algorithm using local and global network information
- Thesis grade: 20/20 (4.0/4.0)

## Publications

- Fahimeh Dabaghi-Zarandi, Parsa KamaliPour. Community detection in complex network based on an improved random algorithm using local and global network information. *Journal of Network and Computer Applications*, 2022 : (Minor revision), Q1, Impact factor: 7.574

## Experience

### Research

#### Undergraduate Research Assistant

Rafsanjan, Iran

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

Aug 2021–Present

- Supervisor: Dr. Fahimeh Dabaghi-Zarandi
- Field: Community Detection
- My responsibilities include: Reading and reviewing related papers, Implementing ideas, Testing and improving the written code, gathering information and writing the initial text for the paper

### Teaching

#### Undergraduate Teaching Assistant

Rafsanjan, Iran

CE Department, Vali-e-Asr University of Rafsanjan

Mar 2021–Present

#### Introduction to Information Retrieval

Dr. Mojtaba Sabbagh-Jafari, Role: solo TA (Spring 2022 ☞ )

#### Design and Analysis of Algorithms

Dr. Fahimeh Dabaghi-Zarandi, Role: Head TA (Spring 2022 ☞ , Fall 2021 ☞ , Spring 2021 ☞ )

#### Data Structures

Dr. Fahimeh Dabaghi-Zarandi, Role: Co-Head TA (Spring 2022 ☞ ), Head TA (Fall 2021 ☞ , Spring 2021 ☞ )

#### Discrete Mathematics

Dr. Fahimeh Dabaghi-Zarandi, Role: TA (Spring 2022 ☞ , Fall 2021 ☞ )

#### Operating Systems

Dr. Fahimeh Dabaghi-Zarandi, Role: Grading TA (Spring 2022 ☞ )

**Instructor for The Summer Coding Bootcamp**  
*CE Department, Vali-e-Asr University of Rafsanjan*

**Python Private Tutor**  
*Freelance*

**Rafsanjan, Iran**  
*Summer 2022*

**Kerman, Iran**  
*Summer 2022*

## Others.....

### Team Co-Founder & Game Developer

*Null References [↗](#) , Indie Game Development Team*

*Feb 2020–Present*

## Research Interests

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- Design & Analysis of Algorithms
- Graph Theory
- Game Theory
- Data Mining
- Machine Learning
- Deep Learning
- Community Detection

## Selected Relevant Coursework

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**Fundamental of Programming:** 20/20

**Software Engineering Lab:** 20/20

**Software Engineering:** 18.75/20

**Digital Logic Design:** 19.45/20

**Introduction to Data Mining:** 17.5/20

★ *Click here to see more [↗](#)*

**Advance Programming:** 16.5/20

**System Analysis and Design:** 20/20

**Design and Analysis of Algorithms:** 18/20

**Computer Architecture:** 18.97/20

**Information Retrieval:** 18.5/20

## Selected Projects

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### Introduction to Data Mining [↗](#)

*Multiple assignments regarding to the Intro to Data Mining course*

*Spring 2022*

### SYMPHONYC: The database of a music streaming service similar to Spotify. [↗](#)

*One project regarding to the Database course*

*Fall 2021*

### Uncertainty: an action-adventure space-shooter game built with Unity3D [↗](#)

*Null References [↗](#)*

*Spring 2021*

○ Uncertainty is an action-adventure space-shooter game, and currently It's under development.

○ We have used the beta version of this game as our "Software Engineering Lab" course project.

### Two projects regarding to Introduction to Information Retrieval course [↗](#)

*Projects:*

*Spring 2021*

The Scrapy Crawler, Inverted Index Construction using BSBI Algorithm

### Multiple projects regarding to Design and Analysis of Algorithms course [↗](#)

*Designing and implementation of:*

*Fall 2020*

The Closest Pair of Points Problem, Sudoku Solver, Tournament Scheduler, Huffman Coding, Bellman–Ford, Matrix Chain Multiplication, N-Queens Solver Traveling Salesman Problem

### Multiple projects regarding to Data Structures and Algorithms course [↗](#)

*Designing and implementation of:*

*Fall 2019*

the Red-Black Tree, the AVL Tree, the Trie Dictionary, Threaded Binary Tree, the Sparse Matrix via Linked List, the Rat in the maze problem

★ *Click here to see more projects [↗](#)*

## Test Scores

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**TOEFL:** Not taken yet

**GRE:** Not taken yet

## Honors and Awards

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**Ranked 6<sup>th</sup> among undergraduate students of Computer Engineering**

*Vali-e-Asr University of Rafsanjan, Entrance Year of 2018*

*2018–Present*

**Awarded by government undergraduate tuition waiver scholarship**

*Vali-e-Asr University of Rafsanjan*

## Extra Curricular Activities

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**Member of Teaching Staff**

*Vali-e-Asr Collegiate Programming Contest (VCPC)*

*Sep 2021–Jun 2022*

**Member of Scientific Staff**

*Vali-e-Asr Computer Engineering Scientific Association*

*May 2019–Jun 2021*

**Member of Executive Staff**

*Vali-e-Asr Video Games Association*

*Oct 2020–Jun 2021*

## Skills

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**Frameworks & Libraries:** Qt, Numpy, Pandas, **Programming Languages:** C, C++, Python, Matplotlib, NetworkX, Scikit-learn, MATLAB, C#, Java, SQL

**Tools:** Jupyter, L<sup>A</sup>T<sub>E</sub>X, Git, Markdown, Linux, Microsoft Office, Obsidian, **Software Engineering:** Refactoring, Debugging, Unit Testing, Agile methodology

**Game Development:** Unity

**Soft Skills:** Team Work, leadership, Collaboration

★ *Click here to see more in LinkedIn* ↗

## Languages

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**Persian:** Native language

**English:** Fluent

## 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*

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

**Dr. Amirhosein Hajahmadi**

**Rafsanjan, Iran**

*Assistant Professor, hadjahmadi@vru.ac.ir*

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

*[July 8, 2022]*