

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." in revision in Journal of Network and Computer Applications (2022). 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, solo TA (Spring 2022)

Design and Analysis of Algorithms

- ▶ Dr. Fahimeh Dabaghi-Zarandi, Head TA (Fall 2022, Spring 2022, Fall 2021, Spring 2021)

Data Structures

- ▶ Dr. Fahimeh Dabaghi-Zarandi, Head TA (Fall 2022, Spring 2022, Fall 2021, Spring 2021)

Discrete Mathematics

- ▶ Dr. Fahimeh Dabaghi-Zarandi, TA (Spring 2022, Fall 2021)

Operating Systems

- ▶ Dr. Fahimeh Dabaghi-Zarandi, Grading TA (Spring 2022)

Database

- ▶ Dr. Mojtaba Sabbagh-Jafari, Head TA (Fall 2022)

Fundamentals of Programming

- ▶ Dr. Amir Hossein Hadjhamadi, Head TA (Fall 2022)

Instructor for The Summer Coding Bootcamp

Rafsanjan, Iran

Vali-e-Asr University Scientific Association of Computer Engineering

Summer 2022

Python Private Tutor
Freelance

Kerman, Iran
Summer 2022

Others

Team Co-Founder & Game Developer

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

Feb 2020–Present

Research Interests

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

Selected Relevant Coursework

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

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

TOEFL: Not taken yet

GRE: Not taken yet

Honors and Awards

Ranked 6th 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

Chairman of Teaching Assistant Committee

Vali-e-Asr University Scientific Association of Computer Engineering

July 2022–Present

Member of Teaching Staff

Vali-e-Asr Collegiate Programming Contest (VCPC)

Sep 2021–Jun 2022

Member of Scientific Staff

Vali-e-Asr University Scientific Association of Computer Engineering

May 2019–Jun 2021

Member of Executive Staff

Vali-e-Asr Video Games Association

Oct 2020–Jun 2021

Skills

Frameworks & Libraries: Qt, Numpy, Pandas, Matplotlib, NetworkX, Scikit-learn

Programming Languages: C, C++, Python, MATLAB, C#, Java, SQL

Tools: Jupyter, L^AT_EX, Git, Markdown, Linux, Microsoft office, Obsidian

Software Engineering: Refactoring, Debugging, Unit Testing, Agile mythology

Game Development: Unity

Soft Skills: Team Work, leadership, Collaboration

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

Languages

Persian: Native language

English: Fluent

References

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. Amir Hossein Hadjahmadi

Rafsanjan, Iran

Assistant Professor, hadjahmadi@vru.ac.ir

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

[July 19, 2022]