

# SEPEHR MADANI

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🌐 [www.github.com/1ssepehr](https://www.github.com/1ssepehr)

## Education

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May 2023 | **B.Sc. in Computer Science (GPA: 4.0/4.0 via 47 credits)**  
University of Massachusetts Lowell, Lowell, MA  
Honors College

## Honors and Awards

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- Iranian Scholarship Foundation Undergraduate Scholarship Award, 2020.
- International Student Scholarship Award at UMass Lowell, 2019 and 2020.
- Second Prize in [Iran's National Mathematics Olympiad](#) (Silver Medal), 2017.
- Fellowship of the [Iran's National Elites Foundation](#) since 2017.

## Selected Courses

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Object-Oriented Programming, Assembly Programming Language, Data structures, Discrete Structures I & II, Linear Algebra I & II

## Projects

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**Nulli-fi (2020)** ([GitLab page](#))

- Created and maintained a Python package for testing different algorithms on nulling systems for mmWave wireless LANs using phased arrays
- Assisted master's candidate by implementing the genetic algorithm for finding nulls
- Designed a GUI using Qt to analyze the performance of proposed nulling algorithms

**Sudoku Solver (2019)** ([GitHub page](#))

- Built a program in Java to solve sudoku puzzles from websudoku.com or from file in command-line interface

**ONR (Optical music Note Recognition) (2015 – 2016)**

- Built a MATLAB-based project to recognize musical notes from scanned music sheets to assist in note-reading

## Experience

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**HiSET Tutoring**, Watertown Free Public Library, July 2020 – present

- Tutored an adult in Mathematics and English to pass the HiSET exam
- Designed customized lessons based on student's knowledge

**Peer Tutoring for Mathematics Olympiad**, Allameh Helli High School, Tehran, Iran, 2017

- Tutored the sophomore Math Olympiad students via problem-solving classes
- Drafted and moderated the de facto geometry reference booklet of lectures and problems for students' reference

## Skills

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**Programming:** C, C++, Python

**Computer Calculation:** Wolfram Mathematica, MATLAB