Sepehr Madani

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Education

Dec 2022 **B.Sc. in Computer Science (GPA: 4.0/4.0) (credits: 65/120)**
University of Massachusetts Lowell, Lowell, MA Honors College

- Related Courses: Object-Oriented Programming, Data structures and Algorithms, Programming Languages, Assembly Language, Computer Architecture, Discrete Structures I & II, Linear Algebra I & II

Honors and Awards

- Accepted into UMass Lowell Professional Co–op Program, 2020.
- UMass Lowell Honors College Fellowship Award, 2020.
- Iranian Scholarship Foundation Undergraduate Scholarship Award, 2020.
- International Student Scholarship Award at UMass Lowell, 2019 and 2020.
- First–year Dean's list for Computer Science, 2019.
- Second Prize in Iran's National Mathematics Olympiad (Silver Medal), 2017.
- Fellowship of the Iran's National Elites Foundation since 2017.

Projects

Pascal Compiler (Honors College Project) (*2020–*)

- Designing and implementing a compiler front-end for the Pascal language

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

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

English Tutor, *Watertown Public Library* (*Project Literacy*), *July 2020 – present*

- Tutored ESOL adults in Mathematics and English subject to pass the HiSET test and TOEFL test
- Designed customized lessons based on each student's knowledge

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

- Tutored the sophomore Math Olympiad students via problem-solving classes
- Drafted and compiled a standardized geometry reference booklet of lectures and problems for students

Skills

Programming: C, C++, Python

Computer Calculation: Wolfram Mathematica, MATLAB