Mohammad Hossein Ghaforian

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1 Education

B.Sc. in Computer Science   **2021 − Present**
Amirkabir University of Technology   *Tehran, Iran*
- GPA: 18.8/20.0 (equivalent to 3.76/4.0)
- Key Coursework: Linear Algebra, Numerical Analysis, Partial Differential Equations

2 Experience

Teaching Assistant   **2023–2025**
Amirkabir University of Technology   *Tehran, Iran*
- Served as TA for the "Matrix and Linear Algebra" course for four consecutive terms.
- Led weekly tutorials, graded assignments, and provided one-on-one support to undergraduate students.

Mathematics Teacher   **2021–2024**
Rahyar High School   *Tehran, Iran*
- Taught high school level mathematics for three years.
- Developed lesson plans, prepared instructional materials, and evaluated student performance.

Research Assistant   **2025**
Tehran University Lab   *Tehran, Iran*
- Contributed to a research project on the denoising of metal artifacts in CT scan images for two terms.

3 Projects

Time-Varying Matrix Inversion using ZNN   **2025**
github.com/ghaf0o0rr/mh-znn
- Developed a novel method to calculate the inverse of time-varying matrices using a Zeroing Neural Network (ZNN).
- Implemented the model and validated its performance against standard computational methods.
- **Tech stack:** Python, NumPy, Matplotlib

4 Skills

Programming: Python, Java, C#, MATLAB
Mathematical Areas: Linear Algebra, Numerical Methods, Differential Equations

5 Languages

Persian (Farsi): Native
English: [Professional Working Proficiency]