

NimaJahanpanah

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Summary

- Computer Science student at Amirkabir University of Technology with 8+ years of advanced Python programming experience
- Expert in algorithms & data structures with teaching assistant experience
- National Olympiad in Computer field finalist (Summer 2021) with strong mathematical background
- Fast learner and interested in mathematics and computer fields

Education

2022–present BSc Computer Science, Amirkabir University of Technology

- **Teaching Assistant:** Data Structures & Algorithms (3 semesters)
 - Developed advanced problem sets
 - Mentored students on complex algorithm design

Technical Skills

- **Languages:**
 - **Python (Expert):** Django, NumPy, Pandas, Scikit-learn, Telegram Bot API, etc.
 - **C/C++ (Advanced):** Low-level systems programming, algorithm implementation
 - **Go (Basic):** Currently studying *The Go Programming Language*
 - PHP (Basic), Java (Basic), SQL (Basic)
- **Core Concepts:** Advanced Algorithms, Data Structures, Linear Algebra, Compiler Design
- **Tools:** Git, Linux, LaTeX

Projects Examples

B-Minor to C Compiler

- Designed and implemented full compiler pipeline (lexer, parser, AST, codegen) in C
- GitHub**

Towers Game Solver Using Classic AI

- Developed graphical solver using classical AI algorithms (A*, IDA*)
- Implemented heuristic functions for optimal pathfinding
- **Technologies:** Python, Pygame, Numpy

GitHub

Handwritten Digit Recognition

- Built digit classifier using numerical linear algebra techniques
- **Technologies:** Python, NumPy, OpenCV

GitHub

Hobby Projects

- Bunch of other AI, backend, Telegram bot and other kinds of projects which were implemented as hobby projects or university projects but aren't added to github.

———— Achievements

2021 National Olympiad in Computer Field

- Advanced to final round (Summer Camp) among
- Awarded Certificate of Excellence

———— Soft Skills

- Fast Learning
- Creative Problem Solving
- Adaptability
- Critical Thinking

———— Additional Information

- Mathematical Background: Advanced discrete mathematics and linear algebra
- Languages: Persian (Native), English