Nima Jahanpanah

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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