Youssef Sami Naggar

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Education

Bachelor of Science in Computer Science | 2nd year | *Expected 2027*
Faculty of Computers and Artificial Intelligence, Cairo University

- GPA: 3.73/4.0 (Ranked 10th in cohort).

Certifications & Courses

- Python for Data Science, AI & Development (IBM)
- Databases and SQL for Data Science with Python (IBM)
- Statistics with Python Specialization (University of Michigan)

In addition to more courses you can view them on my LinkedIn certifications section or my Website.

Skills

Technical Skills:

Programming Languages	Technologies	Tools
• C++ • Python • SQL • Bash	• NumPy • Pandas • Beautiful Soup • Django	• VSCode • Clion • PyCharm • Git

Languages:

- English: B2
- Arabic: Native
- French: B1 (and I have Delf B1 certificate)

Programming Projects:

- Weather Wizard 3000

  Python-based weather application that provides 5-day forecasts using OpenWeatherMap API with multiple location detection options and AI-powered outfit recommendations using Gemini.

- Wordle Combination Finder

  Python algorithm that identifies optimal Wordle word combinations using letter frequency analysis and position-based scoring. Implements Trie data structure with backtracking and multiprocessing for efficient search. Discovered superior four-word combination outperforming popular strategies by 8%.

- UltraTube - YouTube Media Downloader

  Command-line application built in Python that downloads YouTube content with advanced options including quality selection, multiple audio tracks, and subtitle support. Integrates yt-dlp library and FFmpeg for comprehensive media handling while preserving metadata and providing user-friendly interface with error recovery.

- Monster Wrangler game

  Fast-paced Pygame based arcade games where players control a knight to catch colored monsters while avoiding others, featuring progressive difficulty, lives system, and special abilities. Implemented using object-oriented design with custom classes for game entities, collision detection, and state management, all enhanced with custom sprites and assets.