# Hager Ahmed Tantawy

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🗓 **Date of Birth: 1 January 2005**

## Profile Summary

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Motivated Computer Science student at Cairo University, passionate about Artificial Intelligence, Machine Learning, and their applications in Data Science and Data Analysis. Experienced in developing real-world projects using C++, Java, and Python, as well as building web applications with frameworks like Django. Skilled in object-oriented programming, data structures, and software design, with hands-on experience applying AI concepts and working on data-driven projects. Continuously enhancing both technical and soft skills through project-based learning, teamwork, and self-study.

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**Cairo University – Faculty of Computers and Artificial Intelligence**          **2023 – 2027**

**El Fadila Secondary School – Science Department**
- Percentage: 88.23%
- Ranked 2nd in school and 27th in the educational administration.

## Experience & Technical Activities

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**AI Trainee – HUAWEI ICT ACADEMY(HCIA-AI)**          **Jul 2025 – Aug 2025**

- Completed Huawei HCIA–AI with a perfect score (1000/1000), gaining strong foundations in Python, Data Science, and AI.
- Built and deployed Machine Learning & Deep Learning models using MindSpore, TensorFlow, NumPy, Pandas, and Matplotlib through hands-on projects.

**AI Trainee – Route Academy**          **Jul 2025 – Present**

- Building foundations in Python, Data Science, and Machine Learning, including Deep Learning (Neural Networks, CNNs, RNNs).
- Developing real-world AI projects with hands-on practice and ongoing learning.

**Participated in Finology Competition (Central Bank of Egypt)** as part of a team, developing "FinTrack", a personal finance app.          **May 2025- June 2025**

## Projects

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- **Click&Cook website      (Django-based)**
  Built a web app where users can search, save, and review recipes, while admins manage content. Implemented Dark/Light mode and responsive design for a smooth user experience.
- **Tic-Tac-Domination (C++ Console Application)**
  A multi-board game system supporting 8 variants of Tic-Tac-Toe (e.g., Pyramid, 4-in-a-Row, Ultimate). Implemented human, random, and AI-driven smart players with a modular game manager and board representation for smooth gameplay.
- **Vole-Machine Simulator  (C++ Simulator)**
  A simple machine code simulator with custom memory and registers, executing instructions through

the Fetch–Decode–Execute cycle. Supports arithmetic, data transfer, and control flow operations with a modular design (CPU, Memory, Register).

- **Photoshop-Application (C++)**
  A simple image editing application implementing **15 different filters**, allowing users to apply various effects and transformations to images.

- **FinTrack (Java)**
  A personal finance management system that tracks income, expenses, budgets, and goals with notifications and persistent storage.

- **Games Rental System (Python + SQL, 2025)**
  Built a console-based application for renting and managing games. Designed relational database with SQL to support user management, game catalog, and rental operations.

# Certificates

- HCIA–AI (Huawei) – Perfect Score 1000/1000.
- Python Essentials 1 (Cisco Networking Academy) – Core programming & problem-solving.
- AI for Beginners (HP LIFE) – Fundamentals of AI concepts and applications.
- Database Fundamentals (Mahara-Tech / ITI) – SQL & Database Design.
- The Principles of Writing Clean Code (Mahara-Tech / ITI) .
- Mastering Object-Oriented Programming (C++) (Mahara-Tech / ITI).
- HTML, CSS & JavaScript Fundamentals (Mahara-Tech / ITI) – Core web development skills.
- Online Career Directions Program (EFE-Global) – Job market insights & soft skills development.

# Skills & abilities

### Languages & Technologies

- C++, Python, Java, HTML, CSS, JavaScript, AJAX, Django, SQL

### Relevant Coursework

- Structured Programming, OOP, Data Structures, Database , Software Engineering , Web Development, Networks, ML, Algorithms, Operating System, Signals and System

### Software Concepts

- SOLID Principles, Design Patterns, Software Analysis & Design, Technical Writing

### Tools & Platforms

- Git, GitHub, Microsoft SQL Server, Excel, Power Bi, Anaconda, TensorFlow, MindSpore

### Soft Skills

- Problem-Solving, Teamwork, Time Management, Communication, Adaptability, Self-Learning, Critical Thinking

# Languages

- **Arabic –** Native Speaker
- **English –** Upper-Intermediate Level