

Youstina Sameh Fahim

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📍 Cairo, Egypt

Profile

Final-year Computer & Systems Engineering student passionate about AI, Machine Learning, and Software Engineering. Skilled in Python, data structures, and full-stack development with hands-on experience in building intelligent systems and scalable applications. A fast learner and natural team leader with a deep commitment to innovation and continuous growth.

Education

Ain Shams University – Faculty of Engineering

Bachelor of Engineering in Computer and Systems Engineering

Cairo, Egypt

2021 – 2026

Internships & Experience

Microsoft Machine Learning Engineer

Jun. 2025 - Present

DEPI – Digital Egypt Pioneers Initiative

- Gained solid foundations in statistics, linear algebra, and Python for AI and data science.
- Learned key techniques in data preprocessing, visualization, and machine learning algorithms.
- Built and deployed deep learning models, including NLP with attention and computer vision with transfer learning.
- Applied knowledge through hands-on AI projects, including sentiment analysis, image classification, and MLOps pipelines on Azure.

NTI – MEAN Stack Developer Program

Jun. 2025 - Present

National Telecommunication Institute

- Node.js, Express, MongoDB, Angular, REST APIs, UI/UX
- Agile methods, Git, Project Management & Freelancing

Orange Digital Center – SWE Level 2 Certificate *(Completed – 99% Grade)*

Sept. 2024 - Oct. 2024

- SQL, Flask, Web Development, Software Architecture & Testing
- CI/CD pipelines, secure coding, Agile practices

PROJECTS

XML & Social Network Analyzer

Java, JavaFX, Data Structures, Algorithms

- XML validator, JSON converter, LZW compression
- Graph-based user analysis and friend suggestion with GUI + CLI
- Strengthened algorithmic thinking and applied core data structures in a real-world XML

Climate Simulation Satellite – 1st Place Winner

Beyond Earth Hackathon

- Climate monitoring via simulated radar & temperature sensors
- Applied AI for environmental data analysis
- Showcased the practical impact of AI in solving real-world sustainability challenges

Garage Door Automation

Arduino, Embedded Systems

- IR sensor + servo-based automated door opener MIPS Assembly ODE Solver
- Euler method implementation using Mars MIPS simulator

University Backend Simplified

- Developed a simple backend in Java using OOP principles
- Demonstrated understanding of encapsulation, inheritance, and polymorphism

Electrical Circuits Analysis

- Analyzed electrical circuits and calculated equivalent resistances in series and parallel.
- Integrated sorting algorithms (QuickSort, MergeSort, BubbleSort) for efficient data handling.
- Gained hands-on experience in data structures, algorithms, and problem-solving.

COMPETITIONS

Egyptian Collegiate Programming Contest (ECPC) Participant

-Demonstrated strong problem-solving skills by tackling complex algorithmic challenges, Collaborated with team members to develop efficient solutions under time constraints, enhanced proficiency in competitive programming and algorithm design

Beyond Earth Hackathon – 1st Place Winner, Ain Shams University

- Climate monitoring via simulated radar & temperature sensors
- Applied AI for environmental data analysis

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, MIPS Assembly

AI/ML: TensorFlow, Scikit-learn, Pandas, Matplotlib, OpenCV

Web & Dev: Node.js, Angular, Express.js, MongoDB, Flask, Git

Other: REST APIs, Data Structures, OOP, CI/CD, MVC, Agile

Soft skills: Leadership & Team Management (Scouts Leader), Communication & Collaboration , Fast Learner & Problem Solving ,Team Collaboration and Time Management

LANGUAGES

Arabic :Native

English:Fluent

Italian :Beginner