

Diaa ElDeen Amin Ibrahim Fouad

+201104796186 | diaaeldeenamin11@gmail.com | [linkedin](#) | [github](#)

EDUCATION

Misr International University

Bachelor of Computer Science (Expected July 2027)

Cairo, Egypt

October 2023 – Present

- Relevant coursework: Problem Solving, Data Structures, Algorithms, OOP, Web Development, CCNA, SOC

TECHNICAL SKILLS

Programming Languages: C++ (Advanced), Java, JavaScript, HTML/CSS

Frameworks/Tools: Node.js, MongoDB, SQL, Git

Software: VS Code, Visual Studio, Adobe After Effects, Illustrator

Networking: CCNA (In Progress), SOC (In Progress)

Languages: Arabic (Native), English (Professional Working Proficiency)

PROJECTS

Advising Center System | C++, Problem Solving

(GitHub)

- Developed an academic guidance system handling course prerequisites and scheduling constraints
- Implemented file I/O operations for persistent data storage of student records

Bank Management System | C++, Problem Solving

(GitHub)

- Built a secure transaction system with account validation and balance tracking
- Utilized polymorphism for different account types (savings/checking)

Matching Card Game | C++, Data Structures

(GitHub)

- Engineered game logic using stack for card matching and queue for turn management
- Designed scoring system with time-based multipliers

Alarm | C++, Data Structures

(GitHub)

- Created an alarm simulation project to add, delete, or edit alarms synchronized with real-time
- Developed functionality to trigger alarms at user-specified times

Clinic Management System | Java, OOP

(GitHub)

- Developed a GUI application for managing patient records and doctor appointments
- Implemented search functionality with filters for patient history tracking

Movie Database Platform | Full Stack JavaScript

(GitHub)

- Architected responsive frontend with dynamic content loading and rating system
- Developed REST API endpoints using Node.js with MongoDB for movie data storage

CSC230 Computer Networks Project | Cisco Packet Tracer, Networking

(GitHub)

- Designed and configured an enterprise network with VLANs, OSPFv2, EIGRP, DHCP, NAT, and IPsec VPN
- Documented network setup with topology diagrams, configurations, and connectivity test results

Divide and Conquer Algorithms | C++, Algorithms

(GitHub)

- Implemented Fast Exponentiation and Peak Element Finding algorithms with $O(\log n)$ time complexity
- Authored a LaTeX paper analyzing algorithms with real-world applications and Master Theorem

COURSES & CERTIFICATIONS

Problem Solving, Data Structure with C++

Sep 2023 – June 2024

Misr International University

Cairo, Egypt

- Mastered core programming concepts: loops, functions, data structures, Algorithms
- Developed 5 complex projects 2 for demonstrating problem-solving skills and 3 for data-structure and algorithms

Motion Graphics

Feb 2024 – Present

Tahalip Academy

Online (Drive)

- Proficient in Adobe After Effects and Illustrator for animation workflows
- Created educational animations following style guidelines

CCNA (In Progress)

May 2025 – Present

Self-Study

Online

- Studying Cisco Certified Network Associate curriculum focusing on networking fundamentals, IP connectivity, and security

SOC (In Progress)

May 2025 – Present

Self-Study

Online

- Exploring Security Operations Center concepts, including threat detection and incident response