

# Diaa ElDeen Amin Ibrahim Fouad

+201104796186 | [diaaeldeenamin@gmail.com](mailto:diaaeldeenamin@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

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### **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