

# Omnia Ali Abdelmotlib Ali

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## Personal Details

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## Summary

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Highly motivated and enthusiastic Senior-level Computer Science Specialist, graduated from Nahda University, with a strong foundation in programming languages including C++, Python, HTML, CSS, and JavaScript. Eager to leverage developing skills in Flutter for mobile application development and contribute to innovative projects. Interested in problem-solving, web development, network solutions, and AI agents. Committed to continuous learning and professional growth.

## Education

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Bachelor of Computer Science, Nahda University Specialization: Computer Science  
Level: Senior Graduation Year: [Redacted]

## Technical Skills

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Programming: C++, Python, HTML, CSS, JavaScript Mobile Development: Flutter Web Development: HTML, CSS, JavaScript Database Management: Basic experience  
Problem Solving: Strong analytical abilities Network Solutions: Basic understanding AI Agents: Foundational knowledge Other: E-blog, Blog creation & management

## Soft Skills

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Communication (verbal and written) Teamwork Adaptability Time Management  
Creativity Leadership

## Work and Internship Experience

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Travel Salesman (as CS Student) \* Gained communication, negotiation, and customer relations experience. \* Developed organizational skills and independent working ability during studies. Internship \* [Placeholder – no specific details provided.]

## Projects

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### 1. ATM Simulation Project

Role: Software Engineer \* Designed and implemented an ATM simulation using C++ and Python. \* Simulated key banking functionalities such as withdrawal, deposit, PIN verification, and balance inquiry. \* Emphasized secure data handling and user-friendly CLI interface. \* Practiced object-oriented programming and state machine concepts.

### 2. Clinic Request System Application

Role: Software Developer (Mobile & Backend) \* Developed a mobile app using Flutter for patients to request appointments with clinics or specific doctors. \* Integrated Firebase for real-time database and user authentication. \* Implemented clean UI/UX for both patient and doctor panels. \* Improved scheduling efficiency and reduced manual request errors.

### 3. Pathfinding & Graph Optimization Project

Role: Algorithm Developer & UI Designer \* Built a visual pathfinding application to calculate the shortest and most efficient route between two points. \* Used Dijkstra's and A\* algorithms with graphical visualization using Python. \* Applied the project in logistics and route optimization simulations.

## 4. Arduino Smart Control System

Role: Embedded Systems Engineer \* Programmed an Arduino microcontroller to control and monitor temperature, light, and motion sensors. \* Created a smart environment prototype for home/clinic automation. \* Used C++ for embedded programming and integrated with mobile interface via Bluetooth. \* Hands-on experience with circuit design and IoT basics.

## 5. Web Development Projects

Role: Full Stack Developer \* Developed multiple responsive websites using HTML, CSS, JavaScript, and basic PHP. \* Built a blog platform with content management functionality and user comment system. \* Integrated front-end with a backend database (MySQL). \* Learned hosting and deploying websites through GitHub Pages and free hosting services.

## Certifications

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E-bank Certified: Proficient in digital banking operations and security.

## Languages

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Arabic: Native/Fluent English: Professional working proficiency French: Conversational proficiency