

# Abdelrahman Ahmed

.NET FULL-STACK DEVELOPER

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## SUMMARY

Third-year Computer Engineering student passionate about software development with solid knowledge of digital systems and hardware. Proficient in C++, C#, Python, and Git, with hands-on experience in VHDL and FPGA design. Proven track record in building efficient, real-world software solutions and seeking internship opportunities to apply advanced software engineering skills.

## EDUCATION

### Higher Institute of Engineering & Technology (BHI)

Bachelor of Engineering - BE in Computer Engineering

Alexandria, Egypt

2022 – 2027 (Expected)

Third-year student focusing on software architecture, systems design, and low-level hardware logic.

Maintaining a high-performance track record in technical coursework, specifically in C# development and hardware implementation.

Actively applying academic concepts to real-world projects, including SIC/XE assemblers and VHDL-based digital designs.

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Database Management (SQL), Microprocessors (8086), and OOP.

## EXPERIENCE

### Trainee

Digital Egypt Pioneers Initiative (DEPI)

Nov 2025 – Present

Remote

Participating in a structured technical training program focused on software development fundamentals, committing 12+ hours weekly to master Full Stack .NET development.

Practicing programming concepts through hands-on exercises and assignments.

Completed 9+ hands-on coding assignments in C# and SQL, achieving a 100% completion rate on technical deliverables

Strengthening problem-solving skills and applying concepts in C#, SQL, and basic software design.

### Summer Intern

Beheira Electricity Distribution Company (BEDO)

July 2025 – Aug 2025

Beheira, Egypt

Completed a 4-week intensive field training program in electrical power distribution systems.

Achieved a final evaluation grade of 96% (Excellent) for technical performance.

## SKILLS

**Languages & Frameworks:** C#, .NET, C++, Python, VHDL, LUA

**Databases & Tools:** SQL Server, SQL Database Management, Git, FPGA Design

**Languages:** Arabic (Native), English (Fluent)

**Soft Skills:** Team Collaboration, Critical Thinking, Team Player, Fast Learner, Bilingual

## CERTIFICATIONS AND LICENSES

Digital Transformation and Information Systems (Computer Division) | Alexandria Port Authority | Issued July 2025

Applications of Artificial Intelligence | The British University in Egypt | Issued Feb 2025 | Credential ID: ZIN1613

Full Stack .NET Web Development | Digital Egypt Pioneers Initiative (DEPI) | In Progress

Electrical Power Distribution Systems | Beheira Electricity Distribution Company (BEDO) | Grade: Excellent (96%) | Aug 2025

## PROJECTS

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### Garage Management System

Dec 2024

*C#, SQL Server*

- Engineered a full-stack backend application to automate garage operations, featuring precise tracking of vehicle entry/exit times and customer data management.
- Developed a billing logic system to calculate fees based on vehicle duration and customer membership status.

### Arithmetic Logic Unit (ALU) Design

2025

*VHDL, FPGA Design*

- Designed and implemented a 100% functional ALU using VHDL code simulating 8 distinct arithmetic and logical operations for digital hardware verification.
- Verified arithmetic and logical operations through hardware-level programming.

### SIC Architecture Assembler

Dec 2025

*C++, Low-Level Systems*

- Developed a complex system to translate assembly code into machine-readable object code for 100% of standard SIC/XE instructions
- Implemented symbol table management and address resolution logic using C++ to ensure accurate code translation.

### Full-Stack Inventory & Sales System

Dec 2025

*C#, WinForms, SQL*

- Led a team of 5 developers in the end-to-end creation of a comprehensive inventory management application using C#, WinForms, and SQL
- Streamlined business workflows by automating stock level tracking and generating real-time sales reports, significantly reducing manual data entry
- Architected the database schema to ensure data integrity and optimized query performance for fast retrieval of sales records
- Successfully coordinated tasks and code integration, delivering a robust and user-friendly application as a key college software project

### ATM Simulation Application

Oct 2025

*C#*

*Personal Project*

Developed a C# console application simulating banking operations, including secure user authentication and transaction handling.