

# ABDULRAHMAN AMR ANANY

Computer Science Student | Full-Stack Developer | Cybersecurity Enthusiast

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## PROFESSIONAL SUMMARY

Computer Science student at The British University in Egypt (graduating 2028) with practical experience in full-stack web development, embedded systems design, and cybersecurity fundamentals. Skilled in object-oriented programming, data structures, and building end-to-end software solutions. Seeking an internship or entry-level role in software development or cybersecurity to apply hands-on project experience in a professional environment.

## EDUCATION

### The British University in Egypt (BUE) — B.Sc. Informatics & Computer Science

Oct 2024 – Jun 2028 (Expected) | Cairo, Egypt

**Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Computer Systems, Database Systems, Software Engineering, Embedded Systems, Cybersecurity Fundamentals, Computer Networks

## TECHNICAL SKILLS

**Languages:** Python, C++, Java, JavaScript, HTML, CSS, SQL

**Frameworks & Libraries:** React, Next.js, Node.js

**Embedded Systems:** ESP32, RFID (RC522), OLED Displays, FSM Design, Arduino, Sensor Integration

**Databases:** SQL, PostgreSQL (fundamentals)

**Cybersecurity:** Cybersecurity Fundamentals, Secure System Design, Multi-Factor Authentication

**Concepts:** Object-Oriented Programming (OOP), Data Structures, Web Development, Embedded Systems, Agile Teamwork

## PROJECTS

### Smart Electronic Safe – Embedded Systems Capstone 2024–2025

- Multi-factor authentication safe built on ESP32 with RFID card scanning and a 4x4 keypad, managed by a 10-state FSM in C++; delivered as a working hardware prototype with A0 academic poster documentation.

### Electronics Smart Laser Alarm System 2024

- Laser-based intrusion detection system using embedded electronics and sensor integration to trigger real-time security alerts with calibrated detection thresholds.

### Gym Management System 2024

- Full-featured gym management application in Java supporting member registration, 3 membership tiers, and payment tracking with CRUD operations; architecture documented with UML diagrams.

### Hotel Reservation System 2024

- Hotel booking and room management system in Java with user authentication, room availability tracking, and reservation history using structured data handling and OOP principles.

### Cooking Recipe Website 2024

- Responsive recipe-sharing website built with HTML, CSS, and JavaScript featuring dynamic content rendering, category filtering, and multi-page navigation.

### Messaging App UI Clone 2024

- High-fidelity Figma prototype of a full messaging application covering 8+ screens with component-based design systems, consistent typography, and developer-handoff-ready specs.

## CERTIFICATIONS & COURSES

### Data Analysis Certificate — AITP (Association of Information Technology Professionals) | Aug 2025

Key topics: data collection and cleaning, statistical analysis, data visualisation, Excel, and SQL-based reporting.

## LANGUAGES

**Arabic:** Native **English:** B2 – Professional Working Proficiency