

MARWAN MOHAMED ATEF

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EDUCATION

Misr International University, Cairo, Egypt

Expected Graduation: 2026

Bachelor of Computer and Information Science

Relevant Courses: Operating Systems, Data Structures, OOP, Database Systems, Algorithms

EXPERIENCE

Instructor

2025 – Present

Waleed Academy, Cairo

- Creating and delivering educational content on the fundamentals of Computer Science and key concepts in Cybersecurity.
- Producing bilingual (English/Arabic) YouTube videos to make technical content more accessible.
- Teaching foundational Python programming and object-oriented programming (OOP) to beginners.

Software Engineer Intern

2024

Siemens, Cairo

- Developed and customized websites on the Odoo platform.
- Worked on database management and optimization within Odoo.

SQL Developer Intern

2024

Summit Technology Solutions, Cairo

- Worked with MySQL and database systems.
- Gained experience in database design and troubleshooting.

PROJECTS

E-Commerce Website

HTML, CSS, JavaScript, PHP

- Designed and developed a user-friendly website with a responsive interface.
- Followed software engineering principles and created documentation (SDD, SRS).
- Implemented design patterns to enhance functionality and maintainability.
- Applied Object-Oriented Programming (OOP) principles for better code structure.

Event Planning System

Java, Spring Boot, MySQL

- Built a full-stack application to manage and schedule various events.
- Included features such as automated notifications, calendar integration, and event categorization.
- Implemented role-based access for event planners, guests, and administrators.
- Utilized Spring Boot for backend services and MySQL for persistent storage and relational data.

Factory Management System

Java, Spring Boot, MySQL

- Developed a management system to organize workflow, track worker shifts, and oversee production stages.

- Included modules for inventory control, task assignments, worker attendance, and performance tracking.
- Built administrative dashboards to visualize metrics like production output, machine status, and resource consumption.
- Leveraged Spring Boot for modular backend architecture and used MySQL for structured data handling.

Library Management System

Java, JavaFX

- Developed a Library Management System using Java and JavaFX.
- Designed a user-friendly interface for efficient book records management.

University Management System

C++, Windows Forms

- Developed a University Management System using C++ with a graphical user interface (GUI).
- Implemented features for efficient student and faculty record management.

Credit Approval AI System

Machine Learning, Python, Scikit-Learn

- Developed a machine learning-based credit approval system to assess loan eligibility.
- Implemented and trained models using algorithms such as Logistic Regression and Decision Trees.
- Preprocessed financial data, handling missing values, outliers, and feature scaling for improved accuracy.
- Validated model performance using fitness metrics like accuracy, precision, recall, and F1-score.

Networking System

Cisco Packet Tracer

- Simulated a university networking system using Cisco Packet Tracer.

EXTRACURRICULAR ACTIVITIES

MIU ACPC Club — HR Head

- Organized competitive programming events and recruited new members.
- Promoted a collaborative environment to build problem-solving skills.

SKILLS

Programming Languages: C++, Python, Java, JavaScript, PHP, HTML/CSS, MySQL

Frameworks/Tools: Node.js, Spring Boot, Git, XAMPP

Systems: Linux, Unix

Key Strengths: Data Structures, Algorithms, OOP, Problem Solving, Analytical Thinking, Attention to Detail

Languages: Arabic (Native), English (C1), German (B1)