

MOAHMED HAMDY

Teaching Assistant & Software Developer



CONTACT

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EDUCATION

Bachelor's Degree in Information Technology

Information Technology

2020 - 2024

Grade: Excellent with Honors – 91.5%

Master's Degree (Ongoing)

Delta Technological University

2025 – Present

LICENSES & CERTIFICATIONS

- ITI Certificate Mobile Application Development Using Flutter.
- ITI Certificate Developing web Application using PHP.
- Aspire Certificate Employability Skills Track (EST).
- AmCham Certificate Project Management
- AmCham Certificate Digital Marketing

SOFT SKILLS

- Leadership Skills
- Relationship Management
- Communication skills
- Negotiation skills
- Problem-solving skills
- Organization and time management skills

WORK EXPERIENCE

Teaching Assistant

Helwan Int'l Technological University

Departments of

Artificial Intelligence, Cybersecurity, and Data Science

📅 Oct 2024 – Now

Courses Taught:

Artificial Intelligence Fundamentals • Artificial Intelligence Programming • Artificial Intelligence Applications • Big Data Analytics • Operating Systems • Algorithms • Expert Systems • Internet of Things (IoT)

Instructor – Delta Technological University

Advanced Oracle Database Course – 2025

Delivered a 1-month intensive training program covering Oracle SQL and PL/SQL, including data manipulation, joins, constraints, indexing, transactions, and performance tuning. Guided students through real-world projects and practical labs on database design, stored procedures, and administration fundamentals.

Front-End Web Development Course – 2025

- Delivered a foundational Front-End course covering:
- HTML5 fundamentals, forms, and semantic structure
- CSS3 styling, layout (Flexbox & Grid), responsive design, transitions, and animations
- JavaScript basics, DOM manipulation, events, and control structures
- Supervised hands-on HTML/CSS and web design projects integrating animations and JavaScript functionality.

Internships and Projects

E-commerce application using Flutter

Includes 3 distinct apps:

- User app
- Admin app
- Delivery app

These apps are developed using Flutter UI, with an SQL database and PHP for optimal performance and efficient data management.

Bombombay Barbershop – Mobile Application (Flutter)

Flutter | Firebase / PHP | MySQL | Google Play

Live Preview: [Click Here](#)

- Developed and published a full-featured Flutter mobile application on Google Play named "**Bombombay Barbershop**".
- The application targets barbershops in the **UAE**, allowing customers to:
 - View all available services and prices
 - Browse barbershop staff and working hours
 - Check shop availability (open/closed status)
 - Contact the barbershop directly through the app

Admin Application:

- Developed a separate Admin Panel Application to manage:
 - Services (Add / Edit / Delete)
 - Employees management
 - Offers and promotions
 - Application content control in real-time

Student Affairs Web Platform – HITU University

Flutter Web | PHP | MySQL

- Developed a Flutter Web platform for Student Affairs at
- Helwan International Technological University – Technological College, deployed on a custom domain.
- Allows students to log in, view their data, and submit ranked department preferences.
- Includes automated validation and department allocation based on GPA and specialization, reducing manual work and improving accuracy.

Gordal Food Industries — Global Food Export Website

HTML5 | CSS3 | JavaScript | PHP | SEO | Responsive Design

[🔗 Live Demo: https://gordal-eg.com](https://gordal-eg.com)

- Developed a production-ready corporate website for an international food export company.
- Built reusable layout architecture (dynamic header/footer loading via Fetch API).
- Implemented bilingual support (EN/ES) with client-side language persistence.
- Created dynamic product catalog with filtering functionality.
- Developed secure PHP contact form with validation, anti-spam, and rate limiting.
- Applied full SEO optimization (Meta Tags, Open Graph, JSON-LD schema, sitemap.xml, robots.txt).
- Optimized performance using preload & lazy loading techniques.

IoT Smart Home Project using ESP32

Designed and developed an IoT-based smart home system using the ESP32 microcontroller.

Implemented features for remote control of home appliances, real-time monitoring of environmental conditions, and automated responses to sensor inputs.

IoT Smart Parking System using ESP32

Designed and developed an IoT-based smart home system using the ESP32 microcontroller. Implemented features for remote control of home appliances, real-time monitoring of environmental conditions, and automated responses to sensor inputs.

Oxygen Saturation and Heart Rate Monitoring Device using ESP32

Created a compact clip-on device that measures oxygen saturation (SpO2) and heart rate. The device is designed to be worn on the fingertip, featuring a small integrated screen for real-time measurements and Wi-Fi communication for data transfer to a mobile app. Provided users with a convenient tool for continuous health monitoring, with accurate and reliable readings.

TECHNICAL SKILLS

Programming Languages:

- Dart
- Java Mobile Native
- Python
- Java
- C++
- C# (windows programming)
- C

Mobile Development:

- Cross-platform development using Flutter and Dart.
- Experience in building complete mobile apps with clean UI and backend integration.

Desktop Development:

- Windows applications development using C# and Windows Forms.

Web Development:

- PHP
- HTML/CSS
- JavaScript

Database

- Oracle SQL
- MySQL

Internet of Things (IoT):

- Arduino (Uno - Nano)
- ESP32
- ESP8266

Robotics:

- Worked with LEGO EV3 robots.

Cyber Security:

Data Structures and Algorithms:

Computer Graphics:

Embedded Systems:

Network Programming:

Microprocessor

Network Programming

Machine Learning

Big Data & Analytics

Artificial Intelligence

ACTIVITIES & LEADERSHIP

IEEE Membership

Monitor & Endorsement

IEEE Student Branch – Helwan International Technological University

 2025 – Present