## **Abdallah Waleed Kamal Mousa Salem**

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#### **Profile:**

I am an ambitious and detail-oriented student specializing in Internet of Things (IoT) and Big Data Analytics, with a strong foundation in .NET development. My passion lies in creating smart, data-driven applications that seamlessly connect devices, extract valuable insights, and deliver impactful solutions. I am constantly striving to enhance my technical expertise, combining analytical thinking with practical implementation to build innovative systems that address real-world challenges. **Education:** 

(2023-2027): Faculty of Computers & Artificial Intelligence, Menoufia National University (MNU) Specialization: Internet of Things (IoT) & Big Data Analysis

#### Internships:

## DotNet Stack (Aug,2025-Present)

## Information Technology Institute (ITI)

- Learned Object-Oriented Programming with C#, advanced C# features, source control (Git), and Agile methodologies.
- Gained knowledge in HTML, CSS, client-side development with JavaScript and Bootstrap, and database fundamentals.
- Acquired skills in ASP.NET Core MVC, Web API, SQL Server, LINQ, Entity Framework, Material UI, and React.js.
- Completed real-world projects applying full-stack .NET solutions, integrated Agile practices, and solved coding challenges on HackerRank/LeetCode.

# Fortinet Cyber Security Engineer Digital Egypt Pioneers, Menoufia Branch

(Jun, 2025 - Present)

- Led a Capstone Project applying IoT, Big Data, and Cybersecurity in a real-world scenario.
- Studied Cisco CCNA (200-301): network setup, troubleshooting, and LAN/WAN.
- Certified in Fortinet FCP FortiGate 7.4: firewall, VPN, and network security configuration.
- Certified in Fortinet FCP FortiManager 7.4: centralized network automation.

## IoT Applications Engineer

(Sep,2024 – Oct,2024)

#### **National Telecommunication Institute (NTI)**

- Programming: Python
- IoT: Basic device integration, protocols, and concepts
- Cybersecurity: Network Security, Cyber defense
- Embedded Systems: Arduino, sensors, embedded IoT apps
- Freelancing: IT support, data entry, Python automation (Upwork/Fiverr)

## IoT Applications Developer

( Aug, 2024 - Sep, 2024)

## Information Technology Institute (ITI)

- Databases: Relational DBs, SQL queries, and design principles
- IoT Value Chain: Knowledge of device, communication, data & app layers
- IoT Development: Built simple hardware—software integrated IoT apps
- Hands-On Labs: Worked with Arduino, sensors, Bluetooth/NRF modules, actuators

### **Certificates:**

- CCNA-Introduction to Networks Certificate Cisco Networking Academy (Aug,2025)
- Internet of Things (IoT) Applications National Telecommunication Institute (NTI) (Oct,2024)
- IoT Applications Developer Information Technology Institute (ITI) (Sep,2024)
- Python Essentials 1 Cisco Networking Academy (Oct,2024)
- Develop Custom Events & Plugins in MOT MaharaTech (ITI Mooc) (Aug,2024)
- Cisco Certified Network Associate (CCNA) Networking MaharaTech (ITI Mooc) (May,2024)
- Cisco Certified Network Associate Security (CCNA Security) MaharaTech (ITI Mooc) (May,2024)
- Introduction to Network Security MaharaTech (ITI Mooc) (July,2024)
- Computer Network Fundamentals MaharaTech (ITI Mooc) (January,2024)

#### **Skills:**

• Technical Skills:

- Programming Languages: Python (Intermediate), Java (Beginner), C++ (Beginner)
- Software Dev: OOP(Intermediate), software engineering basics (Beginner)
- IoT: Arduino, Sensors (Intermediate), IoT app development (Beginner)
- Database: SQL basics (Beginner), database fundamentals (Beginner)
- Cybersecurity: Network security (Beginner), Fortinet firewall basics (Beginner)

## Language Skills:

Arabic: NativeEnglish: Very GoodFrench: Very Good

#### **Projects:**

#### • Bluetooth – Controlled Robot:

- **Description:** Improved command response by 35%, reaching <500 ms latency and 95% control accuracy and Enabled stable wireless communication within 10 m range using Bluetooth (HC-05) and Enhanced object detection by 100% coverage in 10–150 cm range through sensor calibration.
- Tools: Arduino Uno, HC-05, Ultrasonic sensor, L298N, DC motors, Arduino IDE, mobile
- Github: Bluetooth Robot Project
- Smart E-Commerce Behavior Analytics Project:
  - Description: Processed 995K+ user events with PySpark, improving scalability by 30% via parallel ETL and Achieved 96.7% model accuracy using XGBoost for predicting customer behavior and Reduced data pipeline runtime by 30%, and improved insight extraction efficiency by 40%.
  - Tools: PySpark, Spark, Pandas, Seaborn, Matplotlib, XGBoost, Scikit-learn, Jupyter.
  - Github: Ecommerce Behavior Dataset Project

## **Extracurricular Activities:**

- Team Leader Digital Egypt Pioneers 2025
  - Led a team of 23 students in a national-level digital innovation program and Organized 1 technical workshops and managed project deadlines and Developed leadership, communication, and project management skills.
- Team Leader masterofcoding | ORCA Programming Competition 2025
   Led a 3-member team to 1st place among 18 teams in a national Python programming and competition organized by ORCA and Assigned roles, managed code structure, and ensured timely task completion and Demonstrated strong leadership, teamwork, and problem-solving skills under time constraints.
- Team Leader .NET Stack | Information Technology Institute (ITI), 2025

  As the Team Leader for the .NET Stack at ITI in 2025, I was responsible for guiding and coordinating a group of 27 students. I ensured smooth collaboration, delegated tasks effectively, and supported the team in achieving both technical and project goals. My role also involved fostering communication between students and instructors, encouraging peer-to-peer learning, and creating an environment that strengthened both technical expertise and teamwork skills.