

# Nooraldeen Tayseer Tantawi

## Professional Summary

Junior .NET Developer with a strong foundation in computer engineering, software development and hands-on experience in building full-stack applications using ASP.NET Core, C#, and Entity Framework. Proven track record of developing scalable, maintainable systems following Onion Architecture and clean coding principles. Through academic projects, internships, and personal initiatives, I have delivered web and console-based solutions, integrated APIs, and applied modern design patterns. Experienced in embedded systems, AI integration, and real-time communication between microcontrollers, with a keen ability to solve complex problems and contribute effectively to team-oriented environments.

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## EXPERIENCE

### .NET FULL STACK DEVELOPER (ASP.NET Core)

Personal & Academic Projects | 2023 – Present

- Developed full-stack applications using ASP.NET Core with both MVC and Web API, applying Onion Architecture and clean coding practices.
- Built a Bank Management System with modular architecture for account and customer management.
- Designed and implemented a Pharmacy Management System, enabling CRUD operations for medicines, categories, and orders using ASP.NET Core MVC.
- Delivered a Library System in C# with user authentication, book management, and file-based persistence.
- Focused on scalable design, maintainability, and layered architecture separation.

### ROBOTICS & AI DEVELOPER | CONTEST PARTICIPANT

HTU Sumo Robot Contest | 2023

- Built an AI-powered sumo robot using Unity ML-Agents for training. Integrated Raspberry Pi 4 and Arduino Nano via UART to enable real-time AI decisions based on sensor inputs (IR sensors, black & white sensors).
- Achieved 2nd place in Programming, demonstrating excellence in embedded AI systems, real-time decision making, and inter-device communication.

JRC LINE FOLLOWER CONTEST | 2023

- Developed a line-following robot using Arduino Nano, an IR sensor array, and a PID controller, ensuring responsive and stable path tracking.
- Reached the Top 8 Finalists in the national competition.
- Demonstrated a solid understanding of embedded system tuning and precision control.

**Technical Skills Used:** ASP.NET Core, MVC, Web API, C#, Entity Framework Core, SQL Server, Clean Architecture, Onion Architecture, Git, GitHub, Unity ML-Agents, Raspberry Pi, Arduino, C++, UART, PID, Real-Time Systems

## EDUCATION

**Jordan University of Science and Technology (JUST)** – Irbid, Jordan **B.Sc. in Computer Engineering** — *Expected Graduation: Feb 2026*

- GPA: 3.32 / 4.0 (Very Good)
- Relevant Courses: Object-Oriented Programming, Database Systems, SDLC, Data Structures, Web Development, Artificial Intelligence, Embedded Systems, UML

## Certifications & Awards

**ASP.NET Core Basic Course** – The Hope International

**ASP.NET Core Advanced Course** – The Hope International

**Training Certificate** – ASP.NET Core Basic

**Training Certificate** – ASP.NET Core Advanced

**2nd Place in Programming** – Sumo Robot Contest 2023

**Certificate of Participation** – JRC Line Follower Robot Contest 2023

**Introduction to Arduino Training Certification** – [Jordan University of Science and Technology]

## Training Experience

The Hope International 4<sup>th</sup>/Dec/2023 – 29<sup>th</sup>/Jan/2024

The Hope International 11<sup>th</sup>/Feb/2024 – 19<sup>th</sup>/Apr/2024

## Technical Skills

- **Languages:** C#, C++, JavaScript, SQL
- **Frameworks & Tools:** ASP.NET Core (MVC & Web API), Entity Framework Core, Git, GitHub
- **Front-End:** HTML5, CSS3, JavaScript (Basic), Bootstrap 5
- **Architecture:** Onion Architecture, MVC, RESTful API Design
- **Databases:** SQL Server
- **Development Process:** SDLC, UML, Agile basics, Scrum, Problem Solving
- **Embedded Systems:** Arduino, Raspberry pi
- **Soft Skills:** Effective Communicator, Confident Presenter, Team-Oriented, Adaptable, Social & Outgoing
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## Projects

### Library Management System (Console App - C#)

- Developed a console-based system with user roles (Admin, Librarian, Patron) supporting registration, authentication, and role-based permissions.
- Implemented book management features: adding, searching (title, author, ISBN, genre), listing, deleting books.
- Managed data persistence using text and binary files (users.txt for users, books.dat for books).
- Designed reporting tools for inventory and user statistics.
- Used .NET 6.0 SDK and Visual Studio 2022.

[Library GitHub Repository](#)

### **Bank Management System (Onion Architecture)**

- Designed and implemented a scalable bank management system following Onion Architecture principles to ensure maintainability and separation of concerns.
- Layered projects into Core (entities & business logic), Application (services), Infrastructure (data access), and WebUI (MVC/Web API).
- Managed customer and account data with Entity Framework Core using a database-first approach.
- Implemented domain services for business rules and repository pattern for data access.
- Technologies: ASP.NET Core, EF Core, SQL Server.

[Bank GitHub Repository](#)

### **Pharmacy Management System (ASP.NET Core MVC)**

- Built a responsive web application for managing medicines, categories, and orders.
- Used ASP.NET Core MVC with EF Core (database-first approach) for data modeling and migrations.
- Designed user-friendly UI with Bootstrap 4/5 and Razor views.
- Implemented CRUD operations for medicines and categories, tracking availability.
- Configured SQL Server database and EF Core migrations for data persistence.

[Pharmacy GitHub Repository](#)

### **Extra Strengths**

- Excellent communication and public speaking skills
- Collaborative mindset – worked in teams for university contests and capstone projects.
- Quick learner – consistently explore new tech tools and architectural patterns independently.
- Leadership skills – managed colleges in coursework and communicated effectively to achieve best results.

Amman, Jordan      ntaltantawi21@cit.just.edu.jo

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