Arwa Mostafa Mahfouz

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Experience

Frontend Developer | Education for Employment | Internship   Dec 2023 – Jan 2024

- Completed a comprehensive web development and career readiness program by EFE and IBM.
- Gained practical experience in building responsive web pages using HTML, CSS, and JavaScript.
- Learned project deployment techniques to publish applications online efficiently.

Technologies: HTML, CSS, JavaScript.

Backend Developer| Orange Digital Center (ODC) | Internship   Aug 2024 – Sep 2024

- Trained on MongoDB, Express.js, Angular, and Node.js for full-stack application development.
- Created a responsive and user-friendly UI in Angular, applying best practices for accessibility and performance.
- Designed responsive UI with Angular and implemented secure backend services using Express.js and MongoDB.
- Developed secure, scalable Express.js & MongoDB backend with authentication, role-based authorization, and efficient data handling
- Created backend services in Express.js with secure authentication and role-based authorization
- Independently built a food ordering & booking system with product CRUD, booking management, and role-specific access

Technologies: MongoDB, Express.js, Angular, Node.js, RESTful APIs, JWT, HTML, CSS, Bootstrap, Git & GitHub.

Full Stack Developer | Information Technology Institute (ITI) | Internship   Mar 2025 – Aug 2025

- Completed an intensive, project-based full-stack program covering C#, ASP.NET Core MVC/Web API, Entity Framework Core, LINQ, SQL Server, Angular, and modern software architecture.
- Developed full-stack applications with secure authentication, role-based authorization, and external API integration, applying Onion Architecture, Unit of Work, and Repository patterns.
- Delivered Windows Forms, RESTful APIs, and Angular with responsive, cross-device UI and optimized database performance using EF Core and SQL Server.
- Integrated AI features, enforced secure coding, and added automated testing with CI workflows to deliver scalable, reliable solutions.
- Utilized Git/GitHub for source control and collaborative version management.
- Designed and consumed RESTful APIs for seamless frontend-backend communication, ensuring high performance and scalability.
- Implemented advanced SQL queries, indexing, and optimization strategies to improve application responsiveness.

Technologies: C#, ASP.NET Core MVC, ASP.NET Core Web API, EF Core, LINQ, SQL Server, Angular, TypeScript, HTML, CSS, Bootstrap, RESTful APIs, AI Integration, Git, GitHub, Windows Forms, Secure Coding, Unit of Work, Repository Pattern, Onion Architecture, Testing.

Education

Bachelor's Business Information System, Helwan University   Sep 2020 – Jul 2024

- GPA: 3.89/4 – Excellent (A).

Projects

Digital Notes Manager

As a key project during my ITI training, I developed core components for a Windows Forms (MDI) personal notes application, focusing on enhancing user interaction and note organization. My contributions included:

- **Rich Text Note Editor:** Developed the core note editor component, implementing rich text formatting capabilities (bold, italic, underline) to provide users with a flexible and intuitive note-taking experience.
- **Dynamic Category Management:** Engineered a custom category management control, utilizing a custom event to allow users to dynamically create, assign, and filter their notes, significantly improving organization.
- **Task Reminder System**: Integrated a task reminder system using the DateTimePicker control, enabling users to schedule and receive timely notifications for important notes and tasks.

Technologies: .NET Framework (Windows Forms), C#, Entity Framework, LINQ, SQL Server, Visual Studio .

Employee Management System

As part Built a full-stack web application for efficient employee registration, management, and role-based access control, featuring:

- **Secure authentication:** Integrated ASP.NET Identity for login , email-based password reset, and role-based authorization where admins can assign roles (Admin/Manager/User) to control access and permissions.
- **Data management:** Implemented employee CRUD operations using EF with LINQ, AutoMapper, and Repository & Unit of Work patterns.
- **Advanced search & sorting:** Enabled quick filtering and sorting of employee records.

- **Leave management:** Added leave request workflow where employees can submit requests (annual, sick, unpaid), admins/managers approve or reject, and the system deducts days from the annual leave balance automatically.
- **Real-time notifications:** Integrated SignalR to notify admins when a new leave request is submitted and notify employees when their requests are approved or rejected.

Technologies: ASP.NET Core MVC, EF Core, LINQ, AutoMapper, SQL Server, HTML, CSS, Bootstrap, jQuery, SignalR , SMTP.

Bright Mind Academy

As my ITI graduation project, I co-developed Bright Mind Academy, a scalable multi-instructor e-learning platform. My primary contributions focused on architecting and implementing the following core systems :

- **Payment System:** Engineered a full-stack payment system by integrating the secure PayPal payment gateway to manage the platform's subscription-based model.
- **Integrated Course Management System:** Architected an end-to-end course management system, handling both the instructor-facing CMS for content uploads and the student-facing dashboard for content delivery
- **Pagination for Course Catalog:** Developed an efficient course browsing experience by implementing both server-side and client-side pagination, ensuring fast load times and smooth navigation for a large catalog of subjects.
- **Real-Time Engagement:** Implemented a real-time student notification system using SignalR to instantly alert students to new course content.
- **Automated Student Support:** Contributed to the development and integration of an interactive chatbot to provide student support and answer frequently asked questions.

Technologies: Angular 20, TypeScript, HTML, CSS, Bootstrap, ASP.NET Core Web API, SQL Server, SignalR, Onion Architecture (4-Tier), PayPal integration.

Bistro Bliss App

As part of my ODC training, I developed a full-stack food ordering and table reservation platform that improved the user experience and streamlined restaurant operations through features such as:

- **User authentication:** Implemented registration and login with token-based session handling.
- **Dynamic product catalog:** Displayed menu items with images, supporting creation, update, and deletion for authorized users.
- **Table booking system:** Enabled users to view available reservation slots and book their preferred date/time, with backend API integration for real-time availability checks.
- **Admin dashboard:** Enabled administrators to manage the menu, approve or reject reservation requests, and oversee platform activity.
- **Role-based interface:** Designed UI components to adapt dynamically for admin and user roles.

Technologies: Angular, TypeScript, HTML, CSS, Bootstrap, Node.js, Express.js, MongoDB, Mongoose, bcrypt, JWT, Multer, CORS.

Betak – Graduation Project, Grade: Excellent (A+)

As an ITI graduation project, a multi-instructor e-learning platform was designed and developed to support interactive, secure, and flexible learning experiences for students, instructors, and administrators, featuring:

- **Property browsing & filtering:** Properties are categorized by location, allowing users to easily navigate and select their preferred area.
- **Booking system:** Customers can request a property viewing appointment, with admin approval or rejection.
- **Financial calculator:** An integrated tool to calculate interest, yearly payment amounts, and installment plans.
- **Admin dashboard:** Property management with full CRUD, area categorization, admin approval/rejection for customer viewing requests.
- **User engagement:** Customers can rate properties and leave detailed reviews.

Technologies: Laravel, PHP, MySQL, HTML, CSS, Bootstrap, JavaScript, jQuery.

Extracurricular Activities

- Member - Resale Charity Organization   August 2018 – October 2020
- IT member – TEDX Helwan University   March 2023 – January 2024

Skills

- **Front-end Technologies:** HTML, CSS, Bootstrap, Sass, Angular, AJAX, jQuery, tailwind.
- **Back-end Technologies:** Asp.net MVC, Asp.net web API, Entity Framework Core, LINQ, Signal R, JWT Tokens, Redis, AutoMapper, Ado.net, Node.js, Express , Dapper, Ado.net.
- **Development Methodologies:** Agile.
- **Software Architecture & Principles:** N-Tier architecture, Onion Architecture, SOLID Principles, Clean Code, Design Patterns, OOP.
- **Database:** SQL, MongoDB.
- **Programming Language:** C, C++, C#, JavaScript, Typescript, Python.
- **Tools & IDEs:** Visual Studio, Visual Studio Code, Postman.
- **Version Control:** Git, GitHub.