

Ismail Mohammed Atef

Software Developer

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PROFILE

AEC Software Engineer and .NET Full Stack Developer with hands-on experience in both the AEC and software industries. Experienced Software Developer skilled in designing, developing, and maintaining applications using the .NET ecosystem. Proficient in C#, ASP.NET Core, MVC, WPF, WinForms, and SQL Server, with strong capabilities in building full-stack web applications and desktop solutions. Familiar with industry-specific tools and APIs such as Revit, AutoCAD, and SAP2000. Demonstrated ability to deliver robust, high-quality software solutions on time and within budget. Strong problem-solver with a commitment to continuous learning, clean architecture, and professional growth.

EDUCATION

- Oct 2024 - Jun 2025 - **AEC Software Development/ Information technology institute 9 Month Diploma** - *Smart Village*
Covered a wide range of technologies including , ASP.NET, WPF, and WinForms.
Gained hands-on experience with Revit, SAP2000, and AutoCAD APIs.
Worked with Python for scripting and basic AI applications.
Focused on software solutions for the AEC industry, applying real-world scenarios.
- 2018-2022– **Bachelor Degree in Civil Engineering** – Shoubra Faculty of Engineering, Benha University
Graduation Project (Excellent)

Internships

- Aug 2024 - Sep 2024- **.Net Full stack web development / PaxeraHealth** – *internship*
Developed full-stack web applications using ASP.NET Core and Entity Framework.
Worked on real healthcare-related projects in a professional team environment.
Gained experience with RESTful APIs, SQL Server, and front-end integration.
Improved skills in debugging, performance optimization, and clean architecture.
- Mar 2024 - Sep 2024- **Full Stack .NET/ Digital Egypt Pioneers Initiative** – *MCIT*
Built and maintained web applications using ASP.NET Core and Angular.
Worked with SQL Server, Entity Framework, and modern frontend technologies.
Applied software design patterns and followed agile development practices.
Participated in code reviews, team projects, and real-world problem-solving tasks.
- Nov 2023 - May 2024 – **.NET Backend Training Diploma** – Route IT Training Center
Focused on backend development using C#, ASP.NET Core, MVC, and Entity Framework.
Built APIs, handled database operations, and implemented authentication systems.
Practiced clean code principles, SOLID, and layered architecture.
Completed practical projects simulating real business requirements and scenarios.
- Apr 2022 - Nov 2022 – **Node.js Full Stack Developing Nanodegree** – Udacity
Developed full-stack applications using Node.js, Express, and PostgreSQL.
Built RESTful APIs, handled authentication, and implemented CRUD operations.
Gained frontend experience with HTML, CSS, JavaScript, and testing with Jasmine.
Completed hands-on projects following best practices and clean architecture.

SKILLS

- Languages:** C#, C, C++, Python, HTML, CSS, JavaScript,Typescript, SQL
- Technologies:** ASP.NET Web APIs, ASP.NET MVC, WPF , MVVM , Windows Forms ,Node.js, Entity Framework Core, LINQ
- Front end framework:** Angular
- AEC Tools:** Revit APIS, SAP2000 APIS, AutoCAD APIS, APS (Autodesk Web APIS)
- Database:** Microsoft SQL Server,SQL Lit, T-SQL, Redis
- Tools & Platforms:** Postman, Visual Studio Code, SQL Server Management Studio, Visual Studio ,Revit , Sap2000 ,Navisworks
- Version Control:** Git/GitHub
- Conceptual Knowledge:** OOP, Data Structures, Algorithms, Design Patterns, SOLID Principles, Agile, Problem Solving
- Personal Skills:** Fast learning, Adaptability, Searching, Communication, Critical thinking

Languages

- Arabic:** Native
- English:** Professional

PROJECTS

- [APS-Viewer](#)
The Simple APS Viewer, a web application designed to demonstrate the power of Autodesk Platform Services (APS) Authentication and Data Derivative APIs. This viewer enables seamless integration with Autodesk Forge, allowing users to authenticate via OAuth2 and visualize 3D models in the browser
- [Shop Management System](#)
A robust .NET Core MVC shop management system with order handling, financial tracking, and advanced product filtering. Features include inventory purchasing, secure RBAC authentication, and dynamic AJAX interactions. Built using SOLID principles and design patterns for scalability and clean architecture.
- [Company-System](#)
This project is a web application built using ASP.NET MVC and Entity Framework Core. It provides a structured and efficient way to manage data and user interactions while maintaining security through authentication and authorization. The application follows SOLID principles and employs design patterns such as Repository and Unit of Work for maintainability and scalability.
- [Talabat E-Commerce API](#)
This project is a Web API built using .NET Core, following the Onion Architecture pattern to ensure modularity and maintainability. It incorporates advanced design patterns like Generic Repository, Specification, and Unit of Work to manage data access efficiently. The API includes authentication and authorization for security, utilizes Redis as an in-memory database for caching, and integrates Stripe for payment processing.
- [Qayimli Apis](#)
This is a .NET 8-based RESTful API designed to support a rating web application. It provides endpoints for user authentication, rating submissions, and review management. The API follows clean architecture principles and ensures security, scalability, and maintainability.
- [HealthCare](#)
This is a minimal Web API project that provides healthcare organization data in JSON format. The data is extracted from a SQL Server database and is designed to be consumed by front-end applications. The project follows clean architecture principles and applies key design patterns for maintainability and scalability.
- [Order Management System](#)
This is a Web API application designed for managing orders, tracking inventory, and handling financial transactions. It follows clean architecture principles and implements key design patterns to ensure scalability and maintainability.
- [Qayimli Angular](#)
This is an Angular-based web application designed for rating various items, products, or services. It consumes APIs built with .NET for data management and authentication. The system includes role-based access control, dynamic UI interactions, and a smooth user experience.
- [Tasks Manager](#)
This is an Angular-based task management application designed to efficiently track and organize tasks. The project is built using modern Angular features, including standalone components, dependency injection, and signals, ensuring high performance and maintainability.
- [Investment-Calculations](#)
This is an Angular-based web application for calculating annual values. The project is built with modern Angular features, including standalone components, dependency injection, and signals, ensuring high performance and maintainability.
- [AutoDrawer](#)
WPF Auto Drawer is a desktop application for creating and managing different shapes with advanced drawing capabilities. Built using MVVM architecture, design patterns, and Entity Framework, the application allows users to save and load their drawings, maintaining shapes and layouts across sessions. It features a tabbed system similar to AutoCAD and integrates authentication using Identity.
- [TestYourKnowledge](#)
This Windows Forms application is designed for creating, solving, and tracking tests. It enables users to take tests, receive ratings based on their performance, and view their test history. The application includes authentication and authorization to manage user access and ensure data security.
- [IFCViewer.XBim](#)
This project is a desktop-based IFC file viewer built using WPF and the xBIM library. It provides a user-friendly interface for loading, viewing, and interacting with IFC models on Windows.
- [Revit_AutoStruct](#)
This Revit plugin automates the creation of essential structural elements, including (Levels ,Grids ,Columns ,Footings ,Beams ,Slabs ,Auto-dimensions for all elements)Built with C# and Revit APIs, this plugin enhances productivity by reducing manual drafting time.
- [WebViewer.ThatOpenCompany](#)
This project is a web-based IFC file viewer built with Three.js and That Open Company framework. It allows users to visualize and interact with IFC models directly in the browser without requiring additional software.
- [GameStore](#)
This is a web-based game store featuring two interactive games, built using JavaScript, CSS, and HTML. The website allows users to browse and play games directly in the browser, providing an engaging and interactive experience.
- [My-Portofolio](#)
This is a fully responsive portfolio website designed for both web and mobile devices. The project showcases personal projects, skills, and professional experience in an elegant and user-friendly layout. Built using modern web technologies, it ensures smooth performance and adaptability across different screen sizes.
- [Auto-Layering](#)
This is a custom AutoCAD plugin that streamlines the task of assigning selected graphical objects to a specified layer.