

# MOHAMED MOHAMED ELEKHNAWY

## SOFTWARE ENGINEER

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### PROFILE

Motivated Junior .NET Back-End Developer with hands-on experience in building, maintaining, and optimizing web applications using .NET technologies such as ASP.NET Core and Entity Framework. Skilled in database management, RESTful API design, and performance optimization. Proficient in secure and scalable back-end solutions. Passionate about cloud computing, microservices architecture, and modern software development practices.

### WORK HISTORY

**Software Engineer (.NET Back-End Developer)**  
**Green Virta for Agricultural Products & Fertilizers — Full-Time** **Dec 2024 -Present**

- Developed and maintained the company’s official website using ASP.NET MVC Core, C#, .NET Identity and Entity Framework. Contributed to building internal web-based systems and integrated SQL Server databases to support agricultural business operations.

**Junior .NET Back-End Developer**  
**Self-Initiated Projects & Freelance Work** **Oct2024-Dec 2024**

- Designed, developed, and deployed scalable web applications using ASP.NET Core and Entity Framework.
- Created and consumed RESTful APIs for communication between microservices and front-end applications.
- Enhanced application performance by optimizing SQL Server database queries and applying best practices for data management.
- Implemented security measures, including user authentication, authorization, and encryption protocols.
- Collaborated with front-end developers to ensure smooth integration of UI and back-end services.
- Followed Agile methodologies, including daily stand-ups, code reviews, and sprint planning.

**Trainee – Egypt’s Digital Egypt Builders Initiative (DEPI)**  
**Ministry of Communications** **Jul2024-Dec 2024**

- Completed an intensive full-stack development program focusing on back-end and front-end technologies.
- Gained comprehensive skills in:
  - Database Management: Designed and optimized relational databases using MS SQL Server, including writing and executing complex queries.
  - Back-End Development: Built scalable and secure web applications with ASP.NET Core, Entity Framework, and RESTful APIs.
  - Front-End Development: Developed responsive and interactive UIs using HTML, CSS, JavaScript, and Bootstrap.
- APIs and Integration: Learned to create, document, and consume APIs for seamless integration between systems.
- Developed a capstone project integrating the learned technologies, demonstrating proficiency in end-to-end application development.
- Collaborated with mentors and peers on problem-solving tasks, fostering a strong foundation in modern software engineering practices.

## PROJECTS

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### Project: Green Ferta – E-commerce Website

Role: Full-Stack .NET Developer

Jan2025-Present

- Tech Stack: ASP.NET Core, Entity Framework Core (Code-First), C#, SQL Server, HTML, CSS, JavaScript, Tailwind CSS, Bootstrap, jQuery, Identity
- Developed a complete e-commerce website for Green Ferta, a company specialized in agricultural products and fertilizers.
- Designed and implemented product and category management modules with dynamic content rendering.
- Integrated a brochure section to showcase downloadable product documents.
- Implemented user authentication and role-based authorization using ASP.NET Identity.
- Followed Repository Pattern and used Entity Framework Core (Code-First) approach for structured and maintainable data access.
- Built a custom ordering system using JavaScript, with direct message forwarding to WhatsApp for seamless customer communication.
- Designed responsive UI using HTML, CSS, JavaScript, and Tailwind CSS combined with Bootstrap for enhanced UX.
- Applied client-side form validation using jQuery to ensure data integrity and user experience.

### Project: Bookify

Role: Full-Stack .NET Developer

Nov2024-Dec2024

- Conceptualized and initiated development of an online bookstore enabling users to browse, borrow, or purchase books.
- CRUD Operations.
- Dynamic book catalog integrated with a SQL Server database for efficient data handling.
- Responsive front-end design with Bootstrap for a mobile friendly interface.
- Technologies Used: ASP.NET Core, Entity Framework, MS SQL Server, RESTful APIs, HTML, CSS, Bootstrap, JavaScript, Git.

### Project: Portfolio Website

Role: Full-Stack .NET Developer

Oct2024 – Nov 2024

- Developed a personal portfolio website to showcase completed projects and technical skills.
- CRUD Operations.
- Dynamic project display with seamless navigation. Backend functionality powered by ASP.NET Core and integrated with MS SQL Server for data storage and retrieval.
- Responsive design implemented using HTML, CSS, and Bootstrap for a visually appealing user experience. Technologies Used: ASP.NET Core, Entity Framework, MS SQL Server, HTML, CSS, Bootstrap, Git.

## EDUCATION

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### Bachelor of Artificial Intelligence (IoT Specialization)

Oct2022 - 2026

Faculty of Computers and Artificial Intelligence, Menoufia National University |

Menoufia, Egypt Expected Graduation: June 2026

- Specialized in Internet of Things (IoT) and its applications in modern systems. Coursework includes Data Structures, Database Management, Embedded Systems, and Cloud Computing.

Digital Egypt Builders Initiative (DEPI)

Ministry of Communications | Jul 2023 – Dec 2023

Completed a full-stack development program covering:

Back-End Development: ASP.NET Core, Entity Framework, RESTful APIs. Database Management: MS SQL Server, database design, and optimization.

Front-End Development: HTML, CSS, Bootstrap, and JavaScript. Developed a capstone project integrating end-to-end web development skills. Enhanced problem-solving, collaboration, and software engineering best practices.

Jul 2024 – Oct 2024

SKILLS

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|--|--|
| <div>Front:</div> <ul style="list-style-type: none"><li>• TML5, CSS3, JavaScript</li><li>• Bootstrap, Tailwind CSS</li><li>• jQuery (Validation, DOM manipulation)</li></ul> | <div>Back:</div> <ul style="list-style-type: none"><li>• C#, ASP.NET Core, Entity Framework Core (Code-First)</li><li>• Repository Pattern, LINQ, SQL Server</li><li>• RESTful APIs, ASP.NET Identity (Authentication &amp; Authorization)</li></ul>   |
| <div>Tools &amp; Others:</div> <ul style="list-style-type: none"><li>• Visual Studio, Git &amp; GitHub</li><li>• Postman, SQL Server Management Studio (SSMS)</li></ul>      | <div>Soft Skills:</div> <ul style="list-style-type: none"><li>• Problem Solving &amp; Debugging</li><li>• Team Collaboration &amp; Communication</li><li>• Time Management</li><li>• Self-learning &amp; Adaptability</li><li>• Requirement Analysis</li><li>• Attention to Detail</li></ul> |

ADDITIONAL INFORMATION

- Strong understanding of AI/ML concepts, with hands-on experience through self-initiated projects.
- Completed a certified course Full Stack .NET in DEPI.
- English proficiency: Good (spoken and written communication).
- Passionate about continuous learning in emerging technologies including machine learning, data science, and automation tools