

# Mostafa Ibrahim ElSayed

## Software Engineer

✉ imoztafa@gmail.com    ☎ +01550737836    📍 Cairo, Egypt    🔗 <https://linkedin.com/in/Moztafaa>  
🌐 <https://github.com/Moztafaa>    🌐 <https://mostafa-ibrahim.me>    🛡 Completed

### Profile

Adaptable Software Engineer specializing in backend architecture and RESTful API design across .NET Core, Node.js, and FastAPI. Skilled in Angular for full-stack development, with a strong foundation in software design patterns and scalable system architecture. Versatile problem solver adaptable across multiple technology stacks.



### Education

07/2025 – 11/2025 Cairo, Egypt	<b>Diploma in Full-Stack Web Development Using .NET Track   Intensive Training Program</b> , <i>Information Technology Institute (ITI)</i> <ul style="list-style-type: none"><li>Intensive hands-on training in C#, ASP.NET Core MVC, Entity Framework, Angular, SQL Server, RESTful APIs, Git, and software architecture fundamentals</li><li>Developed multiple full-stack applications including e-commerce platforms, HR management systems, and LMS</li></ul>
04/2024 – 10/2024 Cairo, Egypt	<b>Diploma in .NET Backend Development</b> , <i>Digital Egypt Pioneers Initiative (DEPI)</i> <ul style="list-style-type: none"><li>Intensive training in enterprise application development using .NET, Clean Architecture, and design patterns</li><li>Focus on building scalable backend systems with RESTful APIs, database optimization, and industry best practices</li></ul>
09/2020 – 07/2024 Giza, Egypt	<b>B.Sc. in Information Technology</b> , <i>Cairo University   Faculty of Computers and AI</i> Relevant Coursework: Data Structures & Algorithms, Software Architecture, Cloud Computing, Database Systems, Operating Systems, Advanced Networks

### Professional Experience

11/2024 – 05/2025 Remote	<b>AI Training Specialist</b> , <i>Scale AI</i> <ul style="list-style-type: none"><li>Enhanced and rewrote model responses in frontend web applications using React and vanilla JavaScript</li><li>Developed specialized training pipelines for SQL optimization and frontend tasks</li><li>Annotated and evaluated model outputs to improve coding accuracy and response quality</li></ul>
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### Projects

10/2025 – 11/2025	<b>HR Management System</b>  <ul style="list-style-type: none"><li>Collaborated in a 5-person agile team to develop a modular, full-stack HR Management System, handling the complete employee lifecycle from recruitment and onboarding to payroll and leave management</li><li>Implemented Clean Architecture principles ensuring separation of concerns and high code maintainability</li></ul> <b>Technologies:</b> ASP.NET Web API, Angular, SQL Server, Entity Framework Core, Clean Architecture
09/2025 – 10/2025	<b>Vegist E-Commerce</b>  <ul style="list-style-type: none"><li>Engineered a Full-Stack Angular e-commerce application handling product catalogs and checkout workflows</li><li>Designed RESTful APIs with Express.js and implemented MongoDB database schema with Mongoose ODM</li></ul> <b>Technologies:</b> Angular, Node.js, Express.js, MongoDB, Mongoose



09/2025 – 10/2025	<b>Salah Planner</b> <a href="#">↗</a> <ul style="list-style-type: none"> <li>Created a productivity application that intelligently schedules activities around prayer times using third-party API for real-time prayer times</li> <li>Integrated Redis caching to optimize API response times and reduce external API calls by 80%</li> </ul> <b>Technologies:</b> Angular, ASP.NET Web API, SQL Server, Redis, External APIs
09/2024 – 10/2024	<b>Learning Management System</b> <a href="#">↗</a> <ul style="list-style-type: none"> <li>Built a course management platform using N-Tier architecture and the Unit of Work pattern, reducing database transaction overhead by 40%</li> <li>Implemented role-based access control and course enrollment workflows with ASP.NET MVC</li> </ul> <b>Technologies:</b> ASP.NET MVC, SQL Server, Entity Framework Core, Identity, N-Tier Architecture
01/2024 – 08/2024	<b>Plant Disease Detection, Graduation Project</b> <a href="#">↗</a> <ul style="list-style-type: none"> <li>Deployed production-ready CNN model with FastAPI backend on Azure App Service for seamless UI integration</li> <li>Engineered end-to-end ML pipeline for plant disease classification with real-time inference capabilities</li> </ul> <b>Technologies:</b> Python, FastAPI, TensorFlow, CNN, Azure App Service

### Skills

<b>Programming Languages</b> C#, Python, Java, JavaScript, TypeScript, SQL, Bash	<b>Backend</b> .NET Core, ASP.NET Web API, Entity Framework Core, LINQ, Node.js, Express.js, FastAPI
<b>Frontend</b> Angular, HTML5, CSS3, Sass, Bootstrap, React	<b>Databases &amp; Tools</b> SQL Server, PostgreSQL, MongoDB, Docker, Linux, Git, Azure
<b>Concepts</b> Object-Oriented Programming (OOP), SOLID Principles, Design Patterns, REST API Development, Software Architecture, Clean Architecture, Agile Methodologies, Unit Testing	

### Certificates

<b>Huawei Cloud Certified Developer</b> <a href="#">↗</a> Tech Essentials Associate Course	<b>AWS Academy Graduate</b> <a href="#">↗</a> Introduction to Cloud Semester	<b>CCNA</b> <a href="#">↗</a> Introduction to Networks, Cisco Networking Academy
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### Internships

03/2022 – 05/2022 Remote	<b>Frontend Intern, Algoriza</b> <ul style="list-style-type: none"> <li>Learned and applied frontend technologies including HTML, CSS, and JavaScript to build responsive web interfaces</li> <li>Applied web development best practices to successfully deliver a responsive final project</li> </ul>
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### Extracurricular Activities

02/2022 – 11/2022 Giza, Egypt	<b>Web Development Participant, Microsoft Student Partner (MSP)   Student Activity</b> <ul style="list-style-type: none"> <li>Participated in hands-on web development workshops and collaborative projects</li> <li>Recognized as Best Member for exceptional contributions and commitment to the program</li> </ul>
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### Languages

<b>Arabic</b>	<b>English</b> Professional Working Proficiency
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