

Mohamed Mahmoud

Software Engineer

Cairo, Egypt

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Summary

Passionate Software Engineer experienced in building scalable, high-performance applications using Angular and ASP.NET Core. Skilled in clean architecture, RESTful API development, and creating intuitive, maintainable user interfaces. Experienced with AI-powered features and data-driven solutions through hands-on AI training and real projects. Committed to engineering craftsmanship, performance, and delivering reliable software.

Experience

Front-End Web Development Course at Route Academy [Certification](#) Sep 2024 – Mar 2025

- Learning modern web technologies, including HTML, CSS, Java Script
- Built small-scale projects such as dynamic websites and API-based applications
- Build E-commerce Websites.
- Gaining proficiency in frameworks like Angular19, Bootstrap5 , Tailwind CSS

Software Engineer Intern at EgronX [Certification](#) Sep 2024 – Mar 2025

- Worked as part of a cross-functional team to develop Bayt Aura, a full-featured real estate management web platform.
- Built dynamic and responsive user interfaces using Angular 19, Tailwind, and TypeScript.
- Implemented advanced search and filtering functionalities for property listings
- Integrated RESTful APIs and optimized front-end performance for scalability and responsiveness.
- Collaborated with the AI team to integrate an NLP-powered chatbot and AI-based property recommendation system.
- Gained hands-on experience working in an agile environment using GitHub and Scrum methodology.

AI Training at Huawei Training Course (HCIA) [Certification](#) Jul 2024 – Aug 2024

- Completed an AI training program covering machine learning, deep learning, neural networks.
- Gained hands-on experience with TensorFlow, OpenCV, and Python for AI development.
- Learned about AI model deployment and optimization.

Data Scientist Trainee at Digital Egypt Pioneers Initiative (DEPI) [Certification](#) Nov 2024-May2025

- Participated in intensive training on data science techniques and tools.
- Worked on projects involving data analysis, visualization, and machine learning.
- Gained hands-on experience with Python, pandas, and scikit-learn.

Education

B.Sc. in Computer Science and Artificial Intelligence, Cairo University

Sep 2021 – Jun 2025

Skills & abilities

Technical Skills:

- **Programming Languages:** Python, JavaScript, TypeScript, C++, C#, Java.
- **Web Technologies:** HTML5, CSS, SASS, Bootstrap, Tailwind CSS.
- **Frameworks:** Angular19, ASP.NET Core
- **Web Scraping:** BeautifulSoup, Selenium.
- **Databases:** SQL Server
- **Version Control:** Git, GitHub.
- **Other Skills:** Data Structure, Algorithms, REST APIs.

Soft Skills:

- Management
 - Communication and teamwork
 - Problem solving
 - Leadership
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Additional Knowledge

- Experience with data analysis and visualization using Pandas and Matplotlib.
 - Understanding of machine learning concepts and frameworks like TensorFlow & Scikit-learn.
 - Completed Data Science training at Digital Egypt Pioneers Initiative (DEPI), gaining experience in data manipulation, ML models, and data visualization
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Projects

SumGenQ – Smart Educational Assistant (Graduation Project): [Demo](#)

- Developed the front end of an AI-powered educational platform using Angular and Bootstrap, focusing on user-friendly design and smooth interaction.
- Collaborated with the AI team to integrate NLP-based features such as text summarization and chatbot interaction using Transformer models (BART, T5, Pegasus).
- Contributed to testing and deploying the application using Vercel and GitHub CI/CD, ensuring a stable and scalable system.

Bayt Aura – Real Estate Management System (Internship Project at EgronX): [Demo](#)

- Developed the **entire backend** of the system using **ASP.NET Core**, implementing a clean multi-layered architecture (Controller–Service–Repository).
- Built fully functional **RESTful APIs** covering authentication (JWT), property management, advanced search & filtering, user favorites, role-based access (Admin / Provider / Customer), and system operations.
- Designed normalized database schemas using **SQL Server** and integrated Entity Framework Core for efficient data access and management.
- Integrated AI-based property recommendation and an NLP-powered chatbot through dedicated APIs for personalized user experience.

- Developed the **entire frontend** using Angular 19 and TailwindCSS, including all modules: authentication, dashboards, property listing, advanced filters, favorites, and user interaction features.

E-commerce Website - (Front end):

- Developed a fully responsive e-commerce website using Angular, Bootstrap, and Tailwind CSS.
- Integrated REST APIs to fetch and display dynamic product data.
- Improved site performance by 30% using lazy loading and code splitting.

E-commerce Website - (Back end):

- Built the backend of a scalable e-commerce system using **ASP.NET Core** with **Onion Architecture**.
- Implemented JWT authentication, product filtering/sorting/pagination via Specification Pattern, Redis-Based.
- basket module, order workflow, and Stripe payment integration. Added global exception handling, caching, repositories, Unit of Work, and AutoMapper mapping.

Social Media App:

- Developed a social media application with post sharing and user authentication.
 - Built a fully responsive social media platform using Angular, Bootstrap.
 - Designed an intuitive UI with Tailwind CSS for a seamless user experience.
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Languages

English (Fluent), Arabic (Native)