

Mohamed Ayman Adel Hassan

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Profile

Full-stack .NET software engineer pursuing a degree in Computer Engineering at May University in Cairo (2023–2027). Skilled in building scalable web and desktop applications using .NET, C, Angular, and cloud technologies. Experienced in freelance development, problem-solving, and full-cycle software delivery. AS AI Data Science – Microsoft Machine Learning Engineer track, expanding expertise into machine learning, deep learning, and Azure AI workloads.

Education

May University in Cairo, Bachelor in Computer Engineering – 15 May City, Egypt Oct 2023 – 2027

- GPA: 3.43/4.0 (Excellent degree)

Certifications

- 2x Amazon Certified (Patentor, Architect)
- .NET Full Stack Developer (DEPI), Global Knowledge, Oct 2024

Experience

AI & Data Science – Microsoft Machine Learning Engineer, Telecom Egypt – Nov 2025 – Present
Cairo, Egypt (Hybrid)

- Engineering machine learning solutions using Python, statistical modeling, and Azure ML with a focus on scalable deployment and MLOps. Building deep learning models and cloud-integrated AI pipelines aligned with Microsoft's enterprise engineering standards.

Software Programming Instructor, Code Craft – Cairo, Egypt (On-site) Jul 2025 – Present

- Delivering structured C++ and embedded systems training for junior learners using project-based teaching methodologies. Designing and supervising a capstone Arduino project focusing on real-world problem solving and hardware integration.

Advanced ASP.NET Intern, Upskilling – Cairo, Egypt (Remote) Aug 2025 – Dec 2025

- Developing advanced backend components using ASP.NET Core, Web API, and enterprise-grade architectural patterns. Participating in Agile-driven feature delivery cycles to enhance application scalability and maintainability.

Freelance Software Engineer, ITIDA Gigs – Cairo, Egypt (Remote) Jul 2025 – Nov 2025

- Delivered full-stack software solutions for clients through ITIDA's freelancing initiatives, covering requirements, development, and delivery.

Cloud Architect Intern, National Telecommunication Institute (NTI) – Remote Jul 2025 – Aug 2025

- Gained hands-on exposure to cloud infrastructure design and cloud-native service deployment practices.

Software Engineer (Angular), Web Masters – Cairo, Egypt (Hybrid) Feb 2025 – Jul 2025

- Built responsive, component-based Angular interfaces integrated with RESTful APIs, Improved UI performance and maintainability through reusable components and modular architecture.

.NET Full Stack Developer (DEPI), Global Knowledge – Hybrid Oct 2024 – May 2025

- Developed full-stack applications using ASP.NET Core, Angular, and SQL Server following clean and layered architecture.
- Implemented RESTful services, UI components, and deployment workflows in an Agile engineering track.

Certified Problem-Solving Specialist, Coach Academy – Remote Nov 2024 – Apr 2025

- Trained in structured problem-solving methodologies, root-cause analysis, and logical decision frameworks.

Participant – ECPC (Egyptian Collegiate Programming Contest), Cairo, Egypt Jul 2024

- Solved complex algorithmic and data-structure challenges under timed conditions, strengthening problem-solving and teamwork capabilities.

Projects

TOPRDPS Hosting Platform | Full-Stack (.NET 9 Web API + Angular) Live | GitHub

- Built and deployed a production hosting platform where users browse VPS/Dedicated plans and place orders through a smooth Angular interface. Backend processes requests via a secure .NET API, stores data in the database, and exposes an admin dashboard to track orders in one place.

TechMaster Academy | E-Learning Platform Live | GitHub

- Developed an online courses platform with a clean, responsive UI that helps users discover courses quickly and navigate learning content smoothly. Structured the project with reusable components and clear routing to support future expansion (auth, dashboards, and course management).

Digital Pass (SmartPath) | SaaS Loyalty & Merchant Management Live | GitHub

- Built a full SaaS system for Customers, Merchants, and SuperAdmin with JWT authentication, role-based access, dashboards, and analytics. Implemented key flows like loyalty tracking, rewards, wallet operations, merchant QR scanning, and protected routes with guards. (Angular 17 + ASP.NET Core)

Amazon Clone – Angular github

- Built a responsive Angular 18 e-commerce platform with product browsing and cart management.

AgriSort: Intelligent Robotic Fruit Classifier – Embedded Systems github

- Designed a robotic system with image processing to detect, classify, and sort fruits using Embedded C and computer vision.

Skills

Technical Skills

- Backend: C, .NET Core, ASP.NET, EF Core, LINQ, REST APIs, MVC, WinForms, Web API
- Frontend: Angular 18, TypeScript, HTML/CSS, JavaScript, RxJS, Bootstrap, AngularJS
- Database: SQL Server, MySQL, Entity Framework, Data Modeling
- Cloud: Azure, AWS, Azure ML, ML Pipelines, Cognitive Services
- AI/ML: Python, Machine Learning, Deep Learning (CNN, RNN, NLP), MLOps, Transfer Learning
- Embedded Systems: Embedded C, Arduino, Microcontrollers
- Tools DevOps: Git, GitHub, MLflow, Agile Methodologies, Debugging, Code Review
- Web UX: Web Design, UI/UX, Frontend Optimization, Responsive Design

Soft Skills

- Problem-Solving, Analytical Thinking, Critical Thinking
- Team Collaboration, Mentorship, Teaching
- Project Management, Time Management, Quality-Focused
- Adaptability, Communication, Documentation, Freelancing
- Experimentation, Learning Agility, Strategic Thinking

Languages

- Arabic – Native
- English – Fluent