Malak Mohamed

Software Engineer

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Education

Cairo University Faculty of Computer and Artificial Intelligence	Oct 2022 _ Jun 2026

Experience

NET Web Development Trainee, NTI   Apr 2023 – Sep 2023

- Completed a 6-month intensive training program focusing on backend development using ASP.NET Core.
- Gained hands-on experience with Entity Framework, SQL Server, RESTful APIs, and MVC architecture. Built multiple full-stack web applications and practiced industry-standard development workflows.

Projects / Technologies

CPU Scheduler Simulator | Java – Data Structures & Algorithms

GitHub Repository

- Developed a graphical simulator for various CPU scheduling algorithms (e.g., Priority Scheduling, Shortest Job First, Shortest Remaining Time First) using Java.
- Designed and implemented an interactive GUI for visualizing process execution and time switching.
- Modeled real-world OS behavior using custom process classes and algorithmic logic.
- Focused on user interaction, time efficiency, and modular design for easy scalability.

Clinica – Doctor Appointment Booking App | Full Stack Development

GitHub Repository

- Built a comprehensive full-stack web application for booking doctor appointments based on specialty, availability, and location.
- Developed the **frontend** using **React.js** with a modern UI and responsive design.
- Created the **backend** using **ASP.NET Core Web API**, handling authentication, appointment logic, and API endpoints.
- Integrated **role-based access** for admins, doctors, and patients, supporting secure logins and dynamic dashboards.
- Followed clean code practices, API documentation standards, and deployed via GitHub Pages & production environments

Skills

- **Programming Languages**: C#, JavaScript, HTML5, CSS3
- **Frameworks & Technologies**: ASP.NET Core, ASP.NET MVC, Entity Framework Core
- **Database Management**: Microsoft SQL Server, LINQ, Stored Procedures
- **API Development**: RESTful APIs, Web API, Swagger
- **Version Control**: Git, GitHub, Azure DevOps
- **Development Tools**: Visual Studio, Visual Studio Code, Postman, Fiddler
- **Soft Skills**: Problem-Solving, Team Collaboration, Time Management, Attention to Detail

Achievements / Activities

- Teaching Assistant for Problem Solving and Data Structures & Algorithms courses at 180 Daraga student activity.
- Participated in the ICPC 2023 (Africa & Arab Collegiate Programming Championship) representing Cairo University. [LinkedIn post]