

# Samar Allam

Software Engineer | Back-End Developer

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## SUMMARY

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**Curious** and driven Computer Engineering student with a solid foundation in core CS principles including computer architecture, microprocessors, operating systems, data structures, algorithms, databases, and networking. **Deeply interested** in all tracks of software development – including front-end, back-end, UI/UX, testing, security, DevOps, cloud computing, and AI – and driven by a relentless curiosity to learn and master anything unfamiliar or complex. **Experienced** in building full-stack web applications using ASP.NET, Blazor, React, and Angular through real-world projects and collaborative teamwork. **Seeking** a company that shares my values, respects personal principles, supports continuous growth, and encourages a learning-driven culture where curiosity and innovation are welcomed and nurtured.

## AREA OF EXPERTISE

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ASP.NET Backend Development

React | Blazor | Angular Frontend

## EDUCATION

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Bachelor's of computer engineering, 2021 - 2026

Tanta University Tanta , Al Gharbia (Excellent)

## EXPERIENCE

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**Full Stack Development Intern at INNOTECH, Tanta , Al Gharbia [ Jul 2024 - Oct 2024 ]**

Intensive training on .NET Full Stack Web Development focused on C# , HTML, CSS, Bootstrap , .Net Blazor , **Agile (Scrum) & SDLC**, SOLID Principles , Design patterns , Writing clean code , Data structures, Algorithms overview , SQL Server , and Intro to cyber security.

**Frontend Development Intern at DEPI , Damanhur, Al Buhayrah [ Jun 2024 - Nov 2024 ]**

- Focused on designing and developing responsive and **high-performance** web applications using HTML, CSS, JavaScript, and Bootstrap. (Added "high-performance")
- Gained in-depth knowledge of HTML5 and JavaScript from beginner to advanced levels through intensive tasks and practical application.

- Applied these skills in building a full-featured restaurant management system as part of a collaborative graduation project

## Frontend Development Intern at MEGA Dev, Tanta , Al Gharbia [ Nov 2023 - Dec 2023 ]

Practiced HTML, CSS, JavaScript, TypeScript, and Angular through hands-on tasks as part of a structured internship program. Received regular feedback and guidance from a mentor, which helped strengthen my skills and ensure clean, maintainable code aligned with industry standards.

## SKILLS

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**Programming Languages:** C#, Python, C++, Go , JavaScript, TypeScript , Bash Scripting

**Databases :** Sql ( MS server ) , NoSql (Mongodb)

**CS Principles :** Object Oriented Programming , Data Structures , Algorithms , Operating Systems , Design Patterns , Clean Architecture , SOLID

**Backend Technologies:** ASP.NET API , ASP.NET MVC , Entity Framework , Caching ( redis ) , JWT

**Frontend Technologies:** HTML5 , CSS3 , Bootstrap , JQuery , JavaScript , TypeScript , Angular , React , Blazor

**AI :** Probability , Machine Learning , Neural Networks

**Cloud Computing:** Azure

## PROJECTS

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### Online School For Kids:

*Full-stack Web Application | ASP.NET Web API (Backend) | React (Frontend)*

A collaborative full-stack project aimed at creating a safe and engaging online environment for children and teenagers, reducing their exposure to harmful content.

#### Key Features:

- **Authentication system:** Login, registration, password recovery (forgot/reset password).
- **User interaction pages:** *Support Us, Join Us, Contact Us*, and more.
- **Content navigation flow:** **Categories Page** → **Modules Page** → **Content Page** Content types include **Books, Videos**, and **Podcasts**. Users can **rate** and **comment** on modules after completion.
- **User tools:** Personal **To-Do List**, **Diary Management**, and **Notifications System**.
- **Admin Dashboard:** Enables content moderation, user management, and overall platform control.

#### Technical Highlights:

- Implemented **Onion Architecture** for separation of concerns and long-term maintainability.
- Applied key design patterns including **Generic Repository**, **Unit of Work**, and **Specification Pattern**.
- Integrated **caching mechanisms** to improve performance and scalability.
- Centralized **global exception and response handling** for a consistent API experience.

## E Commerce API:

*Backend RESTful API | ASP.NET Core Web API | Redis Caching*

Designed and developed a scalable and modular E-Commerce API that handles core business functionalities

### Implemented Modules:

- **Security Module** - User authentication and authorization.
- **Product Module** - Product listing, filtering, sorting, and management.
- **Basket Module** - Persistent user shopping cart functionality.
- **Order Module** - Checkout, order placement, and tracking.
- **Payment Module** - Integration of secure payment processing.

### Technical Highlights:

- Built using **Onion Architecture** to enforce separation of concerns and facilitate long-term maintainability.
- Applied clean architecture principles with **Generic Repository**, **Unit of Work**, and **Specification Design Pattern**.
- Implemented **global exception handling** and **unified response formatting** for consistent API behavior.
- Integrated **Redis caching** to enhance performance by reducing redundant database calls.

## Event Booking System:

*Backend RESTful API | ASP.NET Core Web API*

Designed and developed a backend system for managing and booking events

### Key Features:

- **Event Categorization** - Events are organized by **categories** and **tags** for easy filtering and discovery.
- **Booking Functionality** - Users can **browse**, **book**, and **manage reservations** for various events.
- **Admin Management Panel** - Enables administrators to **create**, **update**, and **delete** events, manage categories and tags, and oversee user bookings.
- **Security Module** - Implemented authentication and role-based authorization to protect user and admin operations.
- **Pagination** - Applied efficient pagination techniques for scalable data retrieval and improved performance.