Ahmed Sameh Salem

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PROFESSIONAL SUMMARY

Aspiring Software Engineer | Problem Solver | Deep Systems Thinker

Aspiring **Software Engineer** with a strong drive to deeply understand and solve software challenges beyond specific technologies or programming languages. My focus is on **building well-architected, scalable, and maintainable systems**, grounded in **computer science fundamentals, databases, algorithms, and system design**.

I approach **software engineering as an engineering discipline**, not just coding—it's about designing efficient solutions, optimizing system performance, and understanding how software interacts with the underlying infrastructure. I am continuously deeping my understanding of **system design** and **software architecture**, aiming to build efficient and scalable applications.

I am seeking an **entry-level opportunity** where I can apply this problem-solving mindset, contribute to impactful projects, and continuously grow into a well-rounded software engineer, capable of tackling real-world challenges across diverse domains and technologies.

EXPERIENCE

Graduation Project   **Feb 2025 - Present**

➢ Developing the backend of a tourism planning system using **C#, .NET 8, RESTful APIs, and Entity Framework**
➢ Developed an innovative **5-dimensional dynamic programming algorithm** to generate itinerary planning based on user preferences, enhancing decision-making efficiency.
➢ Designed a **normalized SQL database** with relational integrity.
➢ Implemented **CQRS Pattern** to enhance maintainability, scalability and performance of the system.
➢ Implementing **unit testing** to validate critical components and improve system reliability.
GitHub: https://github.com/linguistc/TripMinder

ITI Summer Internship   **Aug 2024 - Sep 2024**

➢ Trained in **.NET Core, Entity Framework, and MVC**.
➢ Developed a **mini project** using **ASP.NET Core** and SQL Server.
➢ Applied **Domain-Driven Design (DDD)** principles to structure and modularize application components for better scalability and maintainability.

SKILLS

➢ **Languages & Databases**: C# | SQL
➢ **Technologies & Frameworks**: .NET | Entity Framework | RESTful APIs | LINQ
➢ **Programming & CS Fundamentals**: OOD | OOP | Data Structures | Algorithms Analysis & Design
➢ **Software Architecture & Best Practices**: CQRS | DDD | Design Patterns | SOLID Principles
➢ **Development Tools**: Git | Unit Testing | Linux

EDUCATION

Bachelor, Information Systems   **Summer - Expected Fall 2025**
Faculty of Computer Science and Artificial Intelligence, Benha University, Egypt

Additional Information

Beyond my technical interests, I am deeply passionate about problem-solving and critical thinking. I read in epistemology, logic, and philosophy, and I have a strong interest in psychology, which enhance my analytical skills in life.