

# Alireza Shahbazi

C# Full-stack Developer

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## Experience:

- Boushehri Financial Consulting (April 2023 – Present) - Full-stack C# Developer
- [Salam Schools Organization](#) (May 2020 – November 2022) - Windows Forms Developer

## Projects:

### [boushehriteam.com](https://boushehriteam.com) - ASP.NET Razor

Created an entire team platform, for more than 1000 users with different roles and access levels, where team members have an entire platform available to them to improve their business, and leaders can track their own team members in terms of the business progress, educational content they have consumed, etc., using multiple tracking tools and content databases. Every week, a live session gets streamed to the members, and they have access to a video library, containing on-demand, non-downloadable content.

Technologies used: C#, ASP.NET Razor, MS-SQL, Javascript, JQuery, HTML

- **Content Security & Accessibility:** Built a secure HLS-like video streaming system and a video library to prevent unauthorized downloads, ensuring content privacy and controlled access.
- **Automation & Tracking:** Automated licensing processes with detailed progress trackers, document generators, and reports, saving advisors hours on repetitive tasks.
- **Optimization & Performance:** Utilized IMemoryCache to reduce repetitive SQL calls and calculations, improving system performance and scalability. Developed custom C# attributes to streamline SQL operations and enhance database efficiency.

- **Team Management:** Developed role-based access systems for career progression, interactive admin panels for real-time team insights, and tools for event ticketing, RSVP, and payment handling.
- **Technical Innovations:** Created JSON-to-property JavaScript libraries for dynamic UI updates and implemented SMTP email systems for seamless communication with team members.
- **Collaboration & Communication:** Successfully communicated workflows and ideas with non-technical stakeholders and administration teams, translating their needs into practical technical solutions

## Admin Assistance Master App - C# Windows Forms

Created a master app to facilitate the administrative process of admins at Boushehri Financial Consulting, automating their daily task of processing reports, team status, etc.

The master app consists of 5 apps, each covering one side of the administration process, being, Licensing, Downline status, contest leaderboard generator (Later moved on to boushehriteam.com website), policy checker, milestone checker.

Technologies used: C#, .NET Windows Forms

- **Process Automation:** Streamlined repetitive daily tasks like licensing checks, contest leaderboard generation, and milestone tracking, reducing manual effort significantly (An Approximately 50% workload reduction).
- **Technical Adaptability:** Designed workarounds for websites lacking APIs, using HTTPClient and multi-threading to optimize data processing and report generation.
- **Improved Efficiency:** Enhanced data processing speed and accuracy with parallel processing for large datasets, ensuring timely and reliable output.
- **Collaboration & Communication:** Worked closely with non-technical administrative staff to understand their challenges and implement user-friendly solutions that addressed their pain points effectively.

## Automated Multi-Thread Exam Processor & PDF Report Generator - C# Windows Forms

Designed an application for Salam Schools Organization to process large datasets and generate personalized student reports based on their responses and personality analysis.

Technologies used: C#, .NET Windows Forms

- **Automated Career Guidance:** Processed thousands of student responses to multi-choice questionnaires, matching their personalities with suitable career paths using custom algorithms.
- **Dynamic Report Generation:** Generated comprehensive multi-page PDF reports, including personality graphs, career recommendations, and educational guidance.
- **Performance Optimization:** Utilized multi-threading to efficiently process large Excel datasets, reducing runtime and improving report accuracy.
- **Custom Analysis Tools:** Designed a system to identify key personality traits and align them with relevant skills, education paths, and job opportunities, used annually by the organization.

## Re-CPP - C++, Personal Project - [GitHub](#)

Recreated a couple of C++ standard library's classes to deepen my understanding and implementation of such classes in C++.

Technologies used: C++

- **Recreated Standard Library Classes:** Implemented key components like `std::unique_ptr`, `std::shared_ptr`, `std::function`, and various `Type Traits` to mimic standard library functionality.
- **Mastered Advanced C++ Concepts:** Explored and applied advanced techniques, including copy and move constructors, template specialization, and `constexpr` optimizations.
- **Hands-On Learning:** Gained deep insights into the inner workings of the standard library, enhancing understanding of efficient, reusable, and robust code design.
- **Challenged Problem-Solving Skills:** Tackled complex implementation challenges, refining expertise in C++ templates and type traits through a practical and engaging project.

## DataTransfer - C#, Personal Project - [GitHub](#)

Written in C# and using the TCP stream, this application can transfer data with configurable chunk sizes, timeouts, etc. Multiple files can be handled at once using one stream and multiple threads with the help of mutexes.

Technologies used: C#, Console Application

## Education:

[MFT-ICT](#), C# Programming Certificate (100/100)

## Skills:

Programming Languages:

C#, C++

Technologies:

.NET Framework, Windows Forms, ASP.NET, MSSQL, MAUI, WinUI, Unreal Engine, Unity

Tools:

Visual Studio, VSCode, SQL Server Management Studio, Git/Github