



# MIHÁLY VARGA

## Senior Software Engineer



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mihalyvargadev

### WHO AM I?

Senior .NET Developer with 6+ years designing cloud-native enterprise solutions. Using .NET 8, Azure, and React. Worked in cross-functional teams in SAFe agile environments to deliver 10+ mission-critical applications for industrial IoT sensor management. Certified ISTQB, Microsoft C# Specialist.

### EXPERIENCE

- Sep. 2021-Present **Senior .NET Developer** **Blackbelt Technology Kft.**  
As a senior developer I design and implement various greenfield applications and modernize legacy applications with my team during the complete overhaul of the software ecosystem at Elpro Buchs AG.
- I work with a great international agile scrum team of at least 10 persons all around from Europe, developing applications using cutting-edge frontend and backend technologies and suggesting new architectural solutions and keeping hard dates. I work with C#, .NET 8, Microsoft SQL Server, Microsoft Azure Cloud platform, React.js 18.2.0, TypeScript 5 alongside with RabbitMQ and MongoDB for persistence and OpenID Connect, OAuth 2.0 for authentication and authorization.
- Collaborated with an international team using Scaled Agile Framework (SAFe).
- Sep. 2022-Present **.NET trainer** **Soter-Line Educational Center**  
Design and instructed courses on .NET and software development, emphasizing design patterns.
- Jun. 2018-Sep. 2021 **C# Software developer** **Evosoft Hungary Kft.**  
I focused on creating and improving test automation tools for Siemens developer teams. My main areas of expertise are ASP.NET MVC, WPF, Microsoft SQL Server along with Entity Framework Core for database management, NUnit and MOQ for testing. I worked as part of an agile scrum team.
- Feb 2017-Jun.2018 **Software test automation engineer** **Evosoft Hungary Kft.**  
Developed and maintained the test environment for automating integration and smoke tests. Focused on designing and sustaining innovative automated tests for Siemens' widely-used TIA Portal software.
- Sep 2015-Feb 2017 **Software QA Analyst** **star/Trac Supply chain solution GmbH**  
I was responsible for drafting detailed test plans and executing functionality tests. Conducted performance benchmark evaluations to confirm system stability and compatibility.

## PROJECTS

### Sep. 2021-Present **Elpro - Business related Products**

With my agile team of 10 international engineers, we designed and developed various web applications using C# and the latest .NET frameworks (.NET 8) for the backend, MSSQL Server (through Entity Framework Core 7 ORM) and MongoDB for persistence, React.js 18.2.0 and TypeScript for the frontend, and Microsoft Azure cloud environment as the hosting platform.

These software products focused on managing different sensors to detect physical units such as temperature, air humidity, differential pressure, etc. They are used to monitor, display, audit, log, calibrate, and archive sensor data, as well as create alarms and send messages. I also worked on modernizing authentication and authorization of these apps using OpenID Connect and OAuth2.0.

From the Microsoft Azure platform, we used PaaS components, mainly App Services, Function Apps, Azure SQL, Storage Accounts (for static web apps and storing files), Key Vaults, Managed Identities, etc.

**Used technologies:** .NET 8 · .NET 7 · .NET 6 · React · OAuth 2.0 · OpenID Connect · ASP.NET Web API · TypeScript · .NET Framework · .NET Core · Microsoft Azure · ASP.NET Core · C# · ASP.NET MVC · Microsoft SQL Server · .NET · MongoDB · Windows Presentation Foundation (WPF)

### Sep. 2023-Present **Elpro - elproUSER**

ElproUSER is a cutting-edge authorization system designed to handle user identities, group memberships, and permissions across diverse applications while ensuring robust security and alignment with organizational structures and user roles. It boasts a comprehensive database encompassing users, groups, functions, roles, and permissions, facilitating the linkage of groups to specific application functions.

My role involved setting up the solution architecture, database modeling, creating endpoints and services, integrating Keycloak for authentication, and collaborating on frontend development using React.

**Used technologies:** C# 11 · .NET 8 · ASP.NET Core Web API · Microsoft SQL Server · Microsoft Azure · React v18 · Keycloak v26 · OAuth 2.0 · OpenID Connect · AutoMapper · Swashbuckle · Gitlab · xUnit · MoQ · FluentAssertions

### Jan 2019 - Jan 2021 **Evosoft - Multiple Software Products**

During my tenure at Evosoft, I developed a suite of applications focusing on test automation for Siemens's TIA Portal.

**Action Creator:** A WPF desktop application following the MVVM pattern, utilizing Microsoft's MSAA library to capture and assign actions to UI controls. This tool enabled testers to create intricate UI-based functional tests.

**TAI Frontend:** A WPF application that served to create and manage test scenarios. It allowed the arrangement of test steps into complex actions, seamlessly integrating with the Action Creator project.

**TAInterpreter:** A C# console application that functions as a test framework. Interprets XML-defined actions from the Action Creator project, utilizing the MSAA Microsoft library to interact with the TIA Portal's UI. The framework executes these actions, simulating user interactions, and exports the results of the test runs for analysis and review.

**Skills:** WPF · .NET Core · WCF · Microsoft SQL Server

## EDUCATION

2010 - 2014

Computer Scientist | BSc

University of Nyiregyháza

## COURSES

2018 - 2020

ISTQB Foundation Level

Microsoft Specialist: Programming in C#

Secure desktop application development in C#

## SOFT SKILLS

Driver License ( B )

## HOBBIES

**Dog Training & Outdoor Fun:**

Spending time outdoors with my dog and training sessions.

**Reading:** Diving into books on psychology, astrophysics, and ethology.

**Sports:** Staying active and engaged in various sports.

## LANGUAGES

**Hungarian** - native

**English** - proficient