

Oleg Shastitko

ASP.NET Core / .NET Core developer / System Architect

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- My Resume site: <https://www.shastitko.com/>
- LinkedIn: <https://www.linkedin.com/in/olegshastitko/>

SUMMARY

I am confident in my professional skills and competence, with over 15 years of successful experience in ASP.NET, .Net Core, database and Azure programming. During my professional career, I have developed applications for the medical, insurance, logistics/transportation, and other sectors. My experience in designing and successfully implementing fault-tolerant, scalable, and reliable systems of any complexity enables me to handle projects of any complexity.

Development is my passion, and I take pleasure in continuously studying, enhancing my qualifications, overcoming challenges, and setting new goals.

TECHNICAL SKILLS:

Engineering practices:

- Software Engineering
- .NET web development
- .NET back-end development
- .NET unit and integration testing
- Algorithms
- Database development, strong understanding of the RDBMS paradigm, significant experience in normalization/denormalization of database schema; experience in NoSQL databases
- Proficient in development, code debugging and problem-solving. Experienced in OOP paradigm and its advantages, SOLID principles, Grasp patterns. Understanding of “clean code” and “clean architecture”, with experience in designing and developing complex and scalable systems involving multiple services and applications

Technologies & libraries:

- C# / .NET / .NET Core
- ASP.NET / ASP.NET MVC / ASP.NET Core / ASP.NET Web API / SignalR / Razor / Blazor
- MS SQL, Azure SQL, NoSQL databases like CosmosDB
- Entity Framework, EF Core, ADO.NET
- SOAP / REST API

- JavaScript, AJAX, jQuery, HTML (including HTML 5), CSS, Bootstrap, Kendo UI
- xUnit, MS Test
- Google Geolocation API, Google Maps API, Google Street View, NetTopologySuite (GIS solution)
- Azure Web Apps, Azure Functions, Azure SQL Databases, Azure Logic Apps, Azure Storages, Azure Application Insights etc
- Automapper, FluentValidation, Newtonsoft, SendGrid, Twillio
- GIT, SVN

EDUCATION:

Oles Honchar Dnipro National University

Master's degree, Computer science

WORK EXPERIENCE (LAST X):

These are only some of my implemented projects. Throughout my career, I have developed hundreds of projects, small and large, including those with web interfaces and without, utilizing Web APIs and microservices, as well as background processing.

Air+

Aug 2023 – Jul 2024

Project Role: ASP.NET Core Developer, Software Architect

AirCalcs+ is a free web-based software platform that helps users calculate and compare the contaminant levels from both the Ventilation Rate Procedure (VRP) and the Indoor Air Quality Procedure (IAQP). The International Mechanical Code allows for the reduction of outside intake requirements if one can demonstrate that the contaminants resulting from using the IAQP are equal to or less than that which will result from using the VRP.

Responsibilities:

- Design architecture of project.
- Responsible for completion the backend development
- Testing, debugging, troubleshooting the code

Database: Azure SQL

Technologies: .NET Core, EF Core, ASP.NET Core, SendGrid, jQuery, Automapper

3MD

Jun 2018 - Jul 2023

Customer Domain: Transport

Originating as an asset-based trucking leader, 3MD has diversified into a holding company that excels in both software development, highlighted by our flagship product, Trucking Hub, and robust trucking services, consistently focused on providing superior industry solutions.

Subprojects of 3MD:

Device Management

Project Role: Software Architect and .NET developer

A cargo and passenger transportation system needs to have information about the current transport's geo position, current track, history of its track, speed mode, any accidents (if they have occurred), the rules of carriage, checks to determine whether the transport has arrived to intermediate or final destination and on time, and many other details. Therefore, every transport has a tracking device that sends information about it.

There are two external sources (Verizon at <https://www.verizonconnect.com> and SureMdm at <https://www.42gears.com/products/mobile-device-management>) that offer their individual APIs with their functionalities, but to obtain all the necessary information we have to use both systems.

- **Verizon** allows us to get traffic date of usage by day, start or resume devices, mark devices as deleted, determinate the device model (different models has different capabilities: such as some devices lacking geo-coordinate or IMEI identification), track device history, its coordinates and offer other functionalities
- **SureMdm** does not allow saving statuses of devices (such as resume, active, deleted...), but it allows retrieving data usage of device by month, determining which applications are used of them, identifying the carrier associated with each device, and offering other functionalities.

Goals : Synchronize and manage devices across three systems (local, Verizon, and SureMDM).

Responsibilities:

- **Design Project Architecture:** Develop a comprehensive architecture for managing devices received from external sources, ensuring scalability, reliability, and integration with external APIs.
- **Backend Development:** Lead the development of the backend services using .NET Core, EF Core, and Azure Functions, ensuring robust and efficient code delivery.
- **Code Quality:** Produce clean, efficient, and maintainable code in line with project specifications and best practices, using SOLID, GRASP, and other development patterns

- **Testing and Debugging:** Conduct thorough testing, debugging, and troubleshooting to identify and resolve issues in the codebase, ensuring high-quality and reliable software.
- **Integration:** Integrate backend services with other parts of the application, including front-end interfaces and external systems.
- **Database Management:** Manage and optimize data storage and retrieval using Azure SQL, ensuring data integrity and performance.
- **API Integration:** Implement and manage integration with external APIs from Verizon and SureMdm to retrieve and synchronize device data, including usage statistics, device statuses, application details and other relevant information.
- **Synchronization and Management:** Develop solutions to synchronize and manage devices across the local system, Verizon, and SureMdm, ensuring accurate and up-to-date information across all platforms.
- **Documentation:** Create and maintain technical documentation for backend services, API integrations, UML diagrams and system architecture to support ongoing maintenance and future development.

Database: Azure SQL

Technologies: .NET Core, EF Core, Azure Functions, Azure Storage, Azure Service Bus, SendGrid, ASP.NET Core & Web API, AutoMapper

More details here about implementation: <https://www.shastitko.com/device-management>

FMCSA

Project Role: Software Architect and ASP.NET Fullstack developer

The United States Department of Transportation (www.dot.gov/about) includes the FMCSA (Federal Motor Carrier Safety Administration), which regularly updates 2 files: the registered device list and the revoked device list. Both lists are similar by structure, but have some differences (and, of course, list are consisted different devices). These lists can be accessed via URL through a simple GET request.

Goals: Retrieve device lists from FMCSA after each update, parse them considering all described nuances; reorder local lists if necessary and save them. Subsequently via web part or via web API we should showcase list of devices in correct order, with filtering capabilities and a history of changes (showing additions, reorderings, etc., in each new file). Additionally, provide the ability to locally extend information in our database.

Responsibilities:

- **Design Project Architecture:** Develop a scalable and reliable architecture for retrieving, parsing, and managing FMCSA device lists, ensuring integration with both backend and frontend components.
- **Backend Development:** Lead the backend development to handle the retrieval of device lists from FMCSA, including parsing the lists, updating local data, and ensuring that the system correctly reflects changes.

- **Frontend Development:** Create and maintain the frontend interface using Kendo UI, including active use of Kendo Grid and Charts to showcase the device lists in the correct order, with filtering capabilities, and a history of changes, including additions and reorderings.
- **Code Quality:** Produce clean, efficient, and maintainable code that adheres to project specifications and best practices.
- **Testing and Debugging:** Conduct thorough testing, debugging, and troubleshooting to ensure the backend and frontend components work correctly and efficiently.
- **Data Management:** Implement solutions for local data storage, allowing for the extension of information in the database and managing updates to the device lists.
- **Change History:** Develop and maintain functionality to track and display changes to the device lists, including additions, reorderings, and other modifications.
- **Web API:** Implement a Web API for all features of the application, supporting RESTful principles.
- **Documentation:** Create and maintain documentation for backend components, including architecture, code, UML diagrams, and Swagger for Web API documentation.

Database: Azure SQL

Technologies: .NET Core, EF Core, ASP.NET Core, ASP.NET Web API, Azure Functions, Kendo UI, AutoMapper

More details here about implementation: <https://www.shastitko.com/fmcsa>

Domain Registration

Project Role: Software Architect and .NET developer

Automatically register a domain on DNSimple for the client, register a profile in Office365, add A records and MX records, and add the user to the Office365 subscription.

Responsibilities:

- **Design Project Architecture:** Develop a robust architecture for automating domain registration on DNSimple and user profile management in Office365, ensuring the workflow adheres to principles akin to ACID (Atomicity, Consistency, Isolation, Durability).
- **Code Development:** Produce clean, efficient, and maintainable code that adheres to project specifications, focusing on integration with external services and implementing necessary fallback mechanisms.
- **Workflow Implementation:** Implement the automated workflow for domain registration and Office365 profile management, including retry mechanisms and

handling potential issues with unexpected or no responses from external resources.

- **Testing and Debugging:** Conduct thorough testing, debugging, and troubleshooting of the code and integration points to ensure reliable functionality and address issues related to external services and system integration.
- **Integration and Automation:** Utilize Azure Functions and Queues to automate the workflow, including adding A records, MX records, and managing Office365 subscriptions. Ensure proper handling of service unavailability and request processing failures.
- **Handling External Service Variability:** Address the variety of actions required, including working with APIs and emulators for graphical interfaces methods (Selenium) to manage domain records and Office365 profiles effectively.

Database: Azure SQL

Technologies: .NET Core, EF Core, Azure Functions, SendGrid, Azure Storage Queue, Automapper

More details here about implementation: <https://www.shastitko.com/domain-registration>

Drug Consortium implementation

Project Role: Software Architect and .NET developer

The United States Department of Transportation (www.dot.gov/about) requires to follow DOT and FMCSA rules and guidelines regarding pre-employment drug testing, random drug testing, drug and alcohol training, developing a Drug Free Workplace program, DOT reporting, and more.

This project implements these requirements to select drivers for drug testing, both planned from pools and suddenly for specific drivers. It manages the process from obtaining a specimen to obtaining a result, and includes actions to notify the Designated Employer Representative (DER) in case a driver has a positive result.

Responsibilities:

- **Design Project Architecture:** Develop a comprehensive architecture that ensures compliance with DOT and FMCSA rules and guidelines for drug testing and reporting, including pre-employment, random testing, and managing results.
- **Backend Development:** Lead the backend development to manage the drug testing process, including specimen handling, result processing, and notifications. Ensure that the system adheres to all relevant regulations and guidelines.
- **Code Quality:** Produce clean, efficient, and maintainable code based on project specifications and best practices.
- **Testing and Debugging:** Conduct thorough testing, debugging, and troubleshooting to ensure the system operates correctly and reliably, including handling various testing scenarios and regulatory compliance.
- **Integration:** Collaborate with the team to integrate the drug testing management system with other parts of the application, ensuring data flow and functionality across the system.

- **Regulatory Compliance:** Ensure the system supports all aspects of DOT and FMCSA regulations, including notifications to the Designated Employer Representative (DER) for positive test results and maintaining a Drug-Free Workplace program.

Database: Azure SQL

Technologies: .NET Core, EF Core, AutoMapper, SOAP

Upwork

2004-201

More than 5000 hours on different projects since 2004, with a 4.95+ rating

My Upwork profile: <https://www.upwork.com/freelancers/olegshastitko>

LANGUAGES:

English intermediate

Ukrainian and Russian Native