Andriy Zavgorodniy

Experienced web developer with over 22 years of experience with extensive programming skills. For last 22 years of my experience I designed, developed and deployed multiple web sites, web services, WCF services, desktop applications, server applications, windows services. Professional in ASP.NET Core, MVC, C#, Web Services , WCF, HTML, JavaScript, CSS, C++, C, Microsoft Visual Studio, MS SQL Server. Can work independently on multiple projects. Rapidly adapt to new technologies and standards.

# Objective

My objective is to design and develop ASP.NET, ASP.NET Core, MVC frontend web projects as well as backend WebAPI and windows services, WCF services, web services and databases in different market segments. I prefer fulltime position but contract is possible as well.

# Key Skills

## Programming languages/specifications

C#, JavaScript, CSS, HTML, XML, JSON, T-SQL, C++, C, PHP, Perl, VB

## Platforms / libraries / technologies

.net6, dotnet core, aspnet core, .NET 4.6.1/4.6/4.5/4.0/3.5/3.0/2.0/1.1/Mono, LINQ, ASP.NET, MVC, WCF, Web Services, Silverlight, AJAX, ADO.NET, jQuery, Angular JS, Vue JS, Knockout, Ajax Toolkit, MFC, ODBC, COM, DCOM, SOAP, XSL, Active X

## Web Servers

IIS 8.5/7.0/6.0/5.0, Apache, Nginx

## Databases

MS SQL Server 2012/2008/2005/2000, MySql, Maria DB, BerkleyDB, SqlLite, DB Vista, Access

## Software

Microsoft Visual Studio, Team System Server, Git, Microsoft Visio, Microsoft Project, Word, Excel, Outlook, SVN, Source Safe, Crystal Report, Adobe Photoshop, Adobe Illustrator, Corel Draw and various end user software

## Operating Systems

Windows Server, Linux

## Certificates

Microsoft MCP, Brainbech C/C++

## Languages

English, Ukrainian, Russian

# Employment history

Contractor

Miami, FL, USA

April 2022 - now

Senior Software Developer.

Design and development web sites, web services, web API REST services, windows services, micro services using C#, .NET, .netcore, AngularJS, VueJS, Angular, JQuery, Microsoft SQL Server, MySql, MariaDB.

Frontend and backend. Windows and Linux.

Experienced with WCF, ASP.NET, MVC, ADO.NET, Autofac, log4net, Newtonsoft.Json, MailKit, Serilog, AutoMapper, Dapper, HtmlAgilityPack, NUglify, SSH.NET, Nancy, RestSharp, MS Test, NUnit, NSubstitute, FakeItEasy, AutoFixture, IIS, Nginx, Apache.

Affinitiv, Inc

Miami, FL, USA

October 2021 – April 2022

Senior Software Developer.

Design and development web applications and web services for car dealership services written in .NET/Web Forms/ASP.NET Core MVC/Angular. Microsoft SQL Server used as a database and .NET Core WebAPIs as backend services. System implements integration with third party Web APIs from different providers to consume auto parts supply and ordering as well as SMS provider for mobile text messages support. System uses third party .NET components from nuget like Autofac, Newtonsoft.Json, MailKit, Serilog, AutoMapper, Dapper, HtmlAgilityPack, NUglify, SSH.NET and others.

Both frontend web applications and backend .NET web services are hosted on Windows Server under IIS.

Contractor

Miami, FL, USA

Aug 2020 - October 2021

Senior Software Developer.

Design and development web sites, web services, web API REST services, windows services, micro services using C#, .NET, .netcore, AngularJS, VueJS, Angular, JQuery, Microsoft SQL Server, MySql, MariaDB.

Frontend and backend. Windows and Linux.

Experienced with WCF, ASP.NET, MVC, ADO.NET, Autofac, log4net, Newtonsoft.Json, MailKit, Serilog, AutoMapper, Dapper, HtmlAgilityPack, NUglify, SSH.NET, Nancy, RestSharp, MS Test, NUnit, NSubstitute, FakeItEasy, AutoFixture, IIS, Nginx, Apache.

BHG, Bankers Healthcare Group

Miami, FL, USA

March 2020 – Aug 2020

Senior Software Developer.

Design and development web applications and web services written in .NET/Angular. It uses Microsoft SQL Server as a database and .NET webservices as backend for UI. Web services use third party components from nuget like Autofac, Dapper, Nancy, RestSharp. Web applications has integration with third party services like IDology.

Both frontend web applications and backend .NET web services are hosted on Windows Server under IIS.

QPay, Inc. / INCOMM | agent solutions

Miami, FL, USA

March 2012 – Aug 2019

Senior Software Developer.

Responsibility includes development and support 30+ web applications for online/offline payment processing for different mobile carriers like Metro PCS, T-Mobile, AT&T, Verizon, Cricket, Sunpass, Tracfone, NET10, Simple Mobile, Telcel and others. Frontend technologies include mostly ASP.NET, some new projects were implemented using modern AspNet Core. UI libraries used for frontend are JQuery, Angular JS, Vue JS, Knockout. Bootstrap and MaterializeCSS are used as CSS frameworks. Extra UI libraries include fontawesome and google fonts. Single sign on (SSO) is used as authentication/authorization for all 30+ websites to make transparent navigation between different websites after single sign on. SSO has SAML implementaion which allows to integrate not only internal customers but also external. Websites are also protected by server and client SSL certificates.

Backend implemented as a set of WCF services (Windows services and web services) as well as REST services. These services are used for internal middle tier processing as well as integration with carriers’ payment processing APIs. Microsoft SQL Server is used as database storage and reporting service with OLAP processing.

System has integration with third party services like Adobe Sign (https://acrobat.adobe.com/us/en/sign.html) and Authorize.net (https://www.authorize.net).

Frontend and backend use dependancy injection in conjunction with unit testing. Autofac is used for dependancy injection and MS Tests altogether with NSubstitute, FakeItEasy and AutoFixture for unit testing.

Core Technologies

.NET, ASP.NET, DOTNET CORE, ASPNET CORE, IIS, MS SQL, T-SQL, Javascript, JQuery, Angular JS, Vue JS, REST Services, Windows Services, WCF, CSS Frameworks

JPay, Inc.

Miami, FL, USA

April 2011 – March 2012

Developer - designed, developed and deployed desktop projects for kiosks installed in prisons, websites for friends and family members, website for prison management, website for system administrators. All backend implemented as SQL server 2008 and web services written in C# (.NET 2.0) while all websites implemented as ASP.NET VB.NET web forms projects (.NET 2.0). Participated in video calls development which is implemented using Action Script for Flash application and Java as a communication layer between Flash and .NET web services.

Below are the projects I was working on:

Website http://jpay.com. Website for friends and family members. Allows users to find inmates in prison, communicate with inmates using text messages with or without picture attachments, schedule/start video visit, send money to inmate, buy MP3 player for inmate, get information about facility address, phones, fees . Website implemented as ASP.NET VB.NET web forms projects. Uses Microsoft AJAX library, jQuery, embedded flash application. I designed (applied design made by designer), developed and fixed multiple pages including HTML layout, CSS, VB.NET backend, web services, stored procedures, Flash application for video visit.

Website http://facility.jpay.com. Website for facility management. Allows to monitor inmate’s communication, money transactions, review recorded video calls, review inmate’s activity, block or activate services available for inmate. Website implemented as ASP.NET VB.NET web forms projects. Uses Microsoft AJAX library, jQuery, embedded flash application. I developed and fixed multiple pages including HTML layout, CSS, VB.NET backend, web services, stored procedures, Flash application for video visitation.

Website http://staging.jpay.com. Website for system administrators. Allows JPay system administrators to setup all active/inactive kiosks installed on facility premises as well as modify settings, available services at facility, add/remove/change inmate settings, monitor system activity. Website implemented as ASP.NET VB.NET web forms projects. Uses Microsoft AJAX library, jQuery. I developed and fixed multiple pages including HTML layout, CSS, VB.NET backend, web services, stored procedures.

Inmate Kiosk. Windows desktop application running on kiosks installed on facility premises. This is a windows form application written in C# for .NET 2.0, serves for inmates and provides all available services provided by JPay. Kiosk is able to capture/stream picture/video from webcam, send/receive/display/compose text message with or without attachment, download mp3 files from JPay servers, upload mp3 files to mp3 players. Module responsible for file uploads to mp3 player is written in C and referenced using interop from C# application. I fixed multiple pages (architecture of kiosk is made similar to web experience where every forms appears as a new page with backward availability) including C# backend, web services, stored procedures, Flash application for video visitation (flash application embedded into kiosk inside embedded web browser control).

Modern Ad Media / Acqunity Interactive

Deerfield Beach, FL, USA

October 2010 – February 2011

Senior Web Developer - designed, developed and deployed web projects for online advertising, sweepstakes as well as windows and web services for internal processing. Web projects include external websites for customers as well as internal websites for advertising campaigns setup, reports. System components include web servers IIS 7, SQL server 2008, WCF services and windows services. Websites implemented as C# ASP.NET 4 applications with DevExpress controls. Some websites implemented using MVC 3 pattern.

Below are the projects I was working on:

WebAdmin. Web application for system setup and management implemented as C# ASP.NET 4 web forms project. Application consists of data layer, business layer and presentation layer. Data layer and business layer implemented as separated assemblies and shared across multiple projects. Some parts of business layer implemented as WCF services. Web application uses Microsoft AJAX library, jQuery library as well as DevExpress components and controls.

Reports. Web application with report functionality implemented as C# ASP.NET 4 web forms project. Whole data layer implemented as a set of SQL server stored procedures. Website itself is just a presentation layer for every stored procedure from data layer. As a presentation layer it contains a lot of forms to filter data in reports and heavy usage of DevExpress controls. Below are some controls and features used from DevExpress:

Grid control. DevExpress provides flexible grid with AJAX functionality and ability to create nested grids, e.g. detailed report for selected row of parent grid. This grid has ability to implement “on fly” filtering, when grid header has additional icon which allows to limit number of records based on entered text, selected checkboxes or selected value from combobox which applies to particular column only.

Combobox. AJAX implementation of regular combobox.

Date/Time picker. AJAX implementation of textbox for date/time selection.

Checkbox. AJAX implementation of checkbox control with three states.

Controls schema. Similar appearance of all DevExpress controls.

Mobile reports. Website implemented as C# MVC 3 application for mobile devices. The reason of that project is to provide mostly used reports to the business on the go. Original Reports project with complex grids is not suitable for mobile devices.

Sweepstakes. Web project for online sweepstakes implemented as C# ASP.NET 4 web forms project with WCF and windows services at backend. Presentation layer implemented as website and allows users to participate in sweepstakes, display results and leave testimonials while windows service run in background, picks a winner and sends notification about win. WCF service used to communicate with other systems to inform about winner and retrieve information about available sweepstakes, prizes and settings applied for particular sweepstake.

Venali, Inc.

Miami, FL, USA

October 2005 to October 2010

Senior Web Developer/Software developer – designed, developed and deployed web projects, web services, WCF services, windows services including web based monitoring system, reporting, web based AMC(Account Management Center) for customers, intranet web project PAC(Provision Account Center) for internal needs as well as several parts of huge messaging system including OCR, distributed file system, branding, monitoring. Used technologies: C#, .NET Framework 2.0, RFC standards, Image processing, RFC standards (FTP, HTTP protocols), FineReader SDK.

Common library. Designed and developed .net library written in C# for several projects. Project divided into business layer and data layer.

Business layer is implemented as a .NET 3.5 assembly written in C# using Linq2Sql and Linq2Objects technologies. Designed and implemented solution to track changes made by different users from different applications for future troubleshooting.

Data layer is implemented as a .NET 3.5 assembly written in C# and serves as data layer for Microsoft SQL Server 2000/2005. Used Linq2Sql to generate wrappers for database objects (tables, stored procedures) and partial C# classes to extend generated classes to implement additional data read/write logic.

Project PAC. Website for internal usage to provide customer support, sales and finance people ability to manage customers' accounts. Designed and developed from scratch. Project written using C# 3.5, ASP.NET, MVC 2. Website provides web 2.0 experience to load/update data without page refresh. Underlying services for web 2.0 are implemented as WCF services. AjaxToolkit library and jQuery are used too to provide web 2.0 experience.

Credit Card Processor. Windows service written in C# uses HTTP GET and POST requests to connect to credit cards merchant provider to process credit card transactions.

Data Export. Windows service written in C#. This service gets requests from customers and other services for data export. Makes requests to MSSQL 2000/2005 databases, converts received data to SVC format or ZIP archive with SVC file inside and sends email using SMTP server to customer. ZLIB library and it's C# wrapper is used for archiving. This service is multithreaded.

Invoice Printer. VB 6 application. Used to generate invoices from Crystal Report templates. Uses Crystal Report COM objects to generate PDF file or print directly to printer.

Notifications. Windows service written in C#. Monitors events in the system and sends email to customer in case of event. Service allows to setup different notifications for different customers as well as different translations.

AMC. Website for customers. Available at http://amc.venali.com. This online tool allows customers to see how many faxes they sent or received in table format or as a graphical chart, request call details records (CDR) directly to customer's mailbox, view/download PDF invoices, fax archives in TIFF or PDF format, make credit card payments, change personal information, send broadcast faxes and add/delete/modify fax numbers.

Website written using C# 3.5 and ASP.NET. Localized to 12 different languages. Localization uses ASP.NET localization tools. My own invention allows translators to translate website directly from webpage. That allows to see context of translating expressions. Once translation is complete the result is available immediately. Website provides web 2.0 experience to load/update data without page refresh. Underlying services for web 2.0 are implemented as WCF services for ASP.NET. AjaxToolkit library and jQuery are used too to provide web 2.0 experience. Website uses wildcard SSL certificate to encrypt data exchange between client's browser and web server.

AMC. White Labeling. That project allows resellers to use their domain, own logo and scheme for AMC website. So AMC website will look like reseller's website but not Venali's. To protect customers' sessions reseller's SSL certificate will be applied too.

SOHO Signup. Website for customers. Available at http://signup.venali.com. Serves as an entry point for new SOHO customers to start faxing. Allows customers to select best package, create their own account, make payment online using credit card or paypal(in development). Website written using C# 3.5 and ASP.NET. Internal communication implemented using .net remoting.

VDMS.Branding. This is a component for VDMS (Venali Distributed Messaging System). Branding is a one of last stages for fax to email processing. It prepares email to be sent to customer. It uses different PLAIN TEXT or HTML email templates with or without images, in different languages, to compose email. Written in C# it uses LumiSoft library to prepare email. Custom solutions for customers requires to insert custom headers, attachments, mark it as spam if so, use different MIME types for email parts.

VDMS.DFS. Distributed File System. This solution allows VDMS to read/write files from/to different types of locations. It can be UNC location, FTP location, HTTP location, custom location. Implemented as a C# library with common file access interface and different implementations for different locations.

VDMS.OCR. Optical character recognition component for VDMS. Implemented as C# assembly using FineReader SDK. Can OCR single page images like JPEG, BMP, GIF, PNG and multipage images like TIFF.

VDMS.NocServer. Windows service for NOC. Implemented in C# it analyses logs generated by VDMS and creates reports about it's work. It analyses from 10 to 30 Gb of data daily. Data stored in Berkley DB and Ms Sql Server 2005 database. Size of SQL database about 200 Gb. This application hosts WCF service to manage this service externally. Implemented as multi plug-in application. Every plug-in hosted in separated AppDomain which allows to load/unload plug-ins on the fly without stopping whole service.

VDMS.NocWebsite. Web interface for NocSever. Implemented as website written in C#, ASP.NET. Designed for multi users and allows to modify report pages individually for each user.

SVN, Source Safe, Team System source control systems.

ActForex, Inc.

New York, USA / Dnipropetrovs'k, Ukraine

2004-2005

Software developer – worked with FXTrader client/server software for trading on forex markets. Used technologies: C#, C++, C, VB, .NET Framework 2.0, COM. Used software: Visual Studio 2003/2005, Microsoft Windows Server 2003.

* FXTrader server is a windows service app written in C/C++ using COM, DCOM.
* FXTrader client application for FOREX trading is a WINAPI/MFC application written in C/C++.
* FeedServer. C++ application to provide clients with current currency trade rates and historical data.
* ASP/ASP.NET website to setup FXTrader server and feed server.
* Microsoft SQL Server 2000 database was used to store data. Used database tables, views, stored procedures, triggers to manage data storage.
* RSS news browser written in C#.

ISD (Information Systems Development)

Dnipropetrovsk, Ukraine

2001-2004

Software developer – designed, developed and deployed “Specimen Tracking” and “Phlebotomy” part of huge client/server software for hospitals and laboratories. Used technologies: C, C++, CORBA, COM, MFC, Win32 API, db Vista. Used software: Visual Studio 6.0, Windows, AIX.

* Phlebotomy and Specimen Tracking are server/client applications written in C++. Server part written in C++ for AIX operating system and client written for Windows using WINAPI and MFC library.
* New development, bug fixes and support for predecessors: UNIX versions of “Specimen Tracking” and “Phlebotomy” client applications written in C.
* Designed and developed custom MFC controls: masked edit, date time picker, custom combo box, custom textboxes, custom page tabs, custom panels, custom toolbars.
* Import/export data in XML format
* CORBA is used as communication between windows clients and AIX servers.
* DB Vista database.
* MKS source control system

# Education

1995-2000

Master degree. Dnipropetrovs'k State University (Ukraine), radio and physic faculty, "computer systems and network" specialty.

1985-1995

Bachelor degree. Dnipropetrovs'k School #13 (Ukraine), physic & mathematics class

1990-1996

Programming society of regional center of technical youth (Ukraine).