# Dmitry Faleleev

Hartford, United States

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Top of Form

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Senior Software Engineer

Senior Software Engineer with more than 15 years of software development, architecture and project management experience.

Primary development platform Microsoft .Net.

Specialization: Web Development, Enterprise Applications

**SKILLS**

**Key technical strengths:**

* Object-Oriented Design and Software Architecture
* Web development
* Performance tuning (Client-Side Web and Database)

**EXPERIENCE / WORK HISTORY**

## Technology Summary:

* Microsoft .Net Framework with C#
  + Especially .Net Web-related technologies:
    - ASP.Net WebForms / MVC
    - ASP.Net Core
    - Web API
* SQL / Transact-SQL
  + Microsoft SQL Server
  + Experience with query performance tuning
  + SentryOne Plan Explorer
* Web Technologies
  + JavaScript / TypeScript
  + React/Redux
  + OAuth2
* PowerShell
* CI/CD
  + TeamCity
  + Octopus Deploy
* Application Performance Monitoring Platforms
  + DynaTrace AppMon
  + Idera SQL Server Diagnostic Manager
  + Foglight Database Monitoring

## *Nov 2010 – Present*: VIAcode Consulting LLC - Hartford, USA

### Mar 2015 – Present: Senior Software Engineer – TyMetrix T360 Platform team

As a platform team member works on the most critical projects for T360 Infrastructure. Platform team follows Agile Scrum and SAFe methodologies where was responsible for the following activities:

* Design Discussion and Review
* Development and Code Review
* Design and Code Review for system critical changes implemented by other teams
* Requirement review and discussion with product owners
* Feature documentation
* Feature demo for product owners

#### Primary Projects and Activities:

API for Unified UI platform (Oct 2019 – current)

Based on the positive experience with the previous React Spa Web site the business decided to make a unified user interface for multiple products. Multi-Tenant T360 (.Net based) and On-Premise Passport (Java-based) apps have similar goals, but completely different in the technology stack and user interface. To improve overall user experience and reduce development cost it was decided to create a unified Spa application (app framework) that communicates with API using unified JSON Web API interfaces.

Work in a team responsible for building JSON Web API for the T360 Platform.

**Technologies:**

* SAFe Agile Framework – to facilitate work between multiple teams.
* ASP .Net Core 2.1 as engine for API
* Microsoft SQL Server (TSQL) - Database
* IdentityServer v4 – as framework for OAuth2\OpenID Connect implementation
* React/Redux – Primary SPA framework
* Markdown + PlantUML – for design documentation

Spa Web Site optimized for mobile devices (2017 – Sept 2019)

The business struggled with supporting outdated mobile (iOS and Android) applications for invoice review. These applications developed by the separate vendor were limited in functionality and required periodical system updates. As a team, we had to find an efficient way to satisfy the needs of our customers to easily do invoice related tasks on mobile devices and simplify future feature extension.

As a result, we came to a mobile-oriented SPA application with React/Redux on Client-side and ASP.Net Web Api on the server. Spa Web application performs smooth work of users on their phones and tablets, universal web platform helps us to have the same client on iOS, Android and Desktop platforms just adjusting shown information to the screen size. Extension of Web API service endpoint has another goal to extract the most used feature from the monolith web app to the set of services. It should help with a further redesign of the primary system.

**Technologies**:

* Microsoft SQL Server (TSQL) - Database
* ASP .Net Core for API
* .Net Framework Third-Party Libraries
  + - AutoFaq – dependency injection library
    - Auto Mapper – facilitate DTO property mapping
* IdentityServer v4 – as framework for OAuth2\OpenID Connect implementation
* React/Redux – Primary SPA framework
* TypeScript
* Office.js platform – used for integration of developed SPA application with Outlook.

Remove Single Tenant data from the multi-tenant database (GDPR right to be forgotten: Dec 2016 – Mar 2017)

The business had to satisfy a client’s GDPR right to request data removal after contract termination. There were several attempts to solve this issue before, using a complicated set of SQL scripts. The database has more than 500 entity tables, so such scripts are extremely expensive in development, testing, and were brittle, so rarely survived more than one release.

Due to the contract obligations timeline, we had to find another way to develop data removal scripts much faster and make it supportable in the future.

I suggested a solution to use Net200 DataBee to facilitate getting identifiers of entities that belongs to a specific tenant. The team agreed with the solution and my estimations, so I took the Solution Architect role for this project. The automated approach helped us to successfully remove data in time and complete the initial goal. We transferred the framework to another team to do further data cleanup tasks.

**Technologies**:

* C# - primary development language to implement tasks with database dependency: get database structure, find foreign key dependency, find entities that tenant-specific, find cycles and create proper drop dependency.
* PlantUML – as visualization component
* PowerShell – as primary scripting and automation language to generate SQL tests and drop scripts
* Net200 DataBee – as an engine to extract entities to remove.

Establish CI/CD infrastructure (2015 – 2016)

As a team, we realized that the organization needs to have CI/CD infrastructure to consolidate deployment knowledge, reduce time and effort for production deployment and moving toward more service-oriented architecture in the future.

It started as a team initiative to simplify the build and deployment of the most important components and quickly became a much bigger project for production CI/CD of whole T360 infrastructure.

**Technologies**:

* PowerShell – as a primary language for the build (PSAKE) and deployment automation
* TeamCity – as CI and Build orchestration engine
* Octopus Deploy – as a Deployment platform
* NDepend – as static source code analysis

### Jun 2012 – Feb 2015: Senior Software Engineer - Technical Leader for Remote teams in Saint-Petersburg, Russia

Participated in different projects related to Wolters Kluwer – TyMetrix 360 Platform.

Worked using Scrum methodology as part of different teams on different roles.

#### Projects and Activities:

Private Data Access (Nov 2014 – Mar 2015)

The goal of the project was to create a solution that allows the business to avoid having Production backup in public access for the development team. The project has been implemented by the outsource team located in Russia (Rostov).

Worked in the role of Technical Leader and took extra responsibility of the Product Owner role.

**Technologies**: .Net, Power Shell, Net2000 Data Masker (a tool used for data obfuscation), Net 2000 Data Bee (a tool used for data sub-setting)

Performance Tuning (Client-Side and Database)

Participates in several Performance Tuning projects as the lead engineer of the team (up to five engineers) in the following areas: Web Client-Side, Web Browser Memory Consumption and Leaks, Database Calls, Replication and FTS indexing.

It is my favorite kind of engineering activity due to its technical complexity, tight timeline and importance for clients. All these components together give feeling that you make something important and significant.

**Achievements:** Received High-Performance Award in 2013.

**Technologies:** Http Watch, Chrome Development Tools, Dynatrace AJAX Edition, SQL Server Profiler, Microsoft SQL Server Management Studio, SQL Sentry Plan Explorer, Precise I3

Extend T360 Platform Features (Jun 2013 – Oct 2014)

Client-Side Migration (Feb 2013 – May 2013)

Project goal: Find an effective solution to migrate TyMetrix 360 Web Application from IE7 Compatible mode to standard mode to work similarly with the recent versions of Chrome and IE (9+).

**Responsibilities**

* Leading an offshore team of 2 developers and 1 QA.
* R&D to determine potential rendering and behaving issues between different IE modes
* Communication with Product Owner (establish proper expectations and timelines).
* Develop an automation-testing engine using Selenium to compare behavior in different browsers.

UI Redesign Project (Jun 2012 – Feb 2013)

Project goal: Significant increase in usability of the existing system.

Secondary goal: Add multi-browser support and migrate system form ASP.Net 2.0 platform to ASP.Net MVC 4.0.

Software Development Methodology: Scrum (Distributed teams)

**Responsibilities**

* Project leading and team coordination (10 engineers).
* Lead team responsible for adding multi-browser support.
* Technical decisions and Architecture
* Requirement analysis/Work with Product Owner
* Represent team on the scrum of scrum meetings

**Technologies:** ASP.Net MVC 4.0, C#, Java Script, jQuery, SQL, Web Services

**Nov 2010 – Jun 2012: Project Coordinator**

Coordination and facilitation of all outsource activities between VIAcode and CT TyMetrix.

**Responsibilities**

* Manage all development and testing activities (50+ engineers)
* Coordinate activities of managers and team leaders of the offshore team and customer representatives.
* Communication with customer’s representatives (collaboration and reporting).
* Design review and presentation
* Troubleshooting for production critical cases
* Project leading
* Release management
* Requirement analysis
* Customer billing

***Mar 2005 – Oct 2006*:** **Digital Engineering - St. Petersburg, Russia**

Partner of AVIcode Consulting LLC renamed to VIAcode Consulting LLC at 2010

**Oct 2007 – Oct 2010: Project Manager**

Management and coordination for all outsource development activities for particular client (CT TyMetrix).

**Responsibilities**

* Manage all development activity (33 people)
* Oversee project team and day-to-day activities.
* Coordinate activities of Team Leads (5 leads)
* Communication with customer’s representatives (collaboration and reporting).
* Team Management (Recruit, form and optimize team structure)
* Release Management
* Process Management (measure efficiency and optimization )
* Solve and prevent problems; keep projects on schedule and within budget
* High-level analysis of business requirements

Oct 2006 – Oct 2007: **Team Lead**

Management and technical leadership for projects in small teams (about 3 developers).

**Responsibilities**

* Design, cost (working hours) and schedule.
* Design and code review.
* Create project plans in MS Project.
* Solve technical and planning problems.
* Analysis of business requirements.
* Communication with customers.

**Software Developer**

Project **TyMetrix 360° (ASP.Net ERP Application)**

**Duration** **Aug 2004 – Mar 2005**

An integrated suite of web-based tools designed to help corporate legal departments control costs and improve performance. These tools manage legal and financial business process information into a single, integrated platform for invoicing, financials, matter management, documents, budgeting, forecasting, as well as performance and reporting tools.

**Responsibilities**

* Web application development using ASP.Net.
* Architecture, Business Logic and Databases Design for developed modules.
* Performance tuning of Large Data Imports.

**Technology:** ASP.Net, C#, JavaScript, SQL, Web Services

***Oct 2000 – Mar 2005*: Argos Group LLC (**[**www.argosgrp.com**](http://www.argosgrp.com)**) St. Petersburg, Russia**

**Software Developer**

Worked as C++, Java, .Net and ASP.Net developer on different projects.

Project **Billing and customer counting system.**

**Duration** **Aug 2004 – Mar 2005**

Win Form .Net application designed to hold information about Argos customers, sold products/services and rendering documents and bills.

**Responsibilities**

* Architecture, business logic and database design.
* Interaction with customers and customer support (Russian).

**Project EPMLens (Web-Based enterprise modeling application)**

**Duration Nov 2003 – Aug 2004**

A web-based application that allows the design of a business model of a company, and performs optimization of the internal process.

**Responsibilities**

* Web application development using ASP.Net.
* Designed web forms for the user interface.

**Project Automation testing environment – TWS (Testware Widgets Suite)**

**Duration Apr 2001 – Aug 2003**

Framework for automation testing of applications with a graphical user interface on the Windows NT platform.

**Environment** С++, Win32 API, COM/DCOM, Java, JNI, MS SQL Server 7.0,

**Responsibilities**

* Architecture and design of core components of Framework.
* Implementation of core components like the Injection module and library of controls to interact with a tested application.
* Implementation of application for modeling the tested application. Modeling was used to speed up test development time, decrease resources spent at development and update tests.

The results of this project were used for the Master and Bachelor thesis.

**EDUCATION, CERTIFICATES**

# EDUCATION

1998 – 2004. Saint-Petersburg State University of Information Technologies, Mechanics and Optics. Master degree.  
Specialization: Software Development

**CERTIFICATES**

2014 – Certified Product Owner

2012 – Certified Scrum Master

2007 – Microsoft Certified Solution Developer

2006 – Microsoft Certified Application Developer

2005 – Microsoft Certified Professional (MCP # 3374284)