

Yury Sidarenka

Highlands Ranch, CO 80126

Linkedin: www.linkedin.com/in/yurysidarenka/

Phone: 720-236-0601 E-mail: yury.sidarenka@gmail.com

Personal Profile

- **Software Architect and Developer** with over twenty years of experience in software engineering specializing in full life-cycle development of software products with C# .NET, TypeScript/JavaScript, HTML, Sass/Less/CSS, SQL/T-SQL/NoSQL, C/C++, cloud platforms AWS and Azure
- Focused on development of web, api, server, queue/message, desktop and mobile applications
- Extensive experience in Redis, MemCache, MS SQL, MySQL, RavenDB, MongoDB and IBMi
- Strong knowledge of Object Oriented Programming and Design, Agile development
- Result oriented and highly motivated with strong reporting and reconciliation skills
- Innovative, quick study and a continuous learner
- AWS Certified Solution Architect – Associate (SAA-C03), Security Clearance, ISSO 1/2

Technical Skills

- **Programming languages:** C# .NET, JavaScript/TypeScript, HTML, SQL, Transact-SQL (DDL, DML), C/C++, VB, LINQ, Sass/Less/CSS, LabVIEW
- **Technologies, concepts and libraries:** .NET, OIDC/OAuth/JWT, Vault, Docker/Containers, AWS, JSON, RESTful, WPF, WCF, Kestrel, IIS, API Gateway, Network Protocols and Technologies (TCP/IP, DNS, DHCP, VLANs, VPN), F5, WAF, Consul, Identity Server, PING, NServiceBus, MediatR, Angular/AngularJS, RxJS, NodeJS, Webpack, Single sign-on (SSO), MFA, TOTP, Gulp, Google Material Design, KnockoutJS, K6 (load testing), SignalR, Backbone, PWA, JointJS, Swagger/Nswag/OpenApi, Splunk, Cypress, Bootstrap, Razor, Capacitor, Cordova/PhoneGap, DierctShow, TCP/IP, USB, FTP, AppDynamics, 508 compliance, NIST, OWASP
- **Database Technologies:** AWS/Azure storage, Redis, MS SQL Server, SQL Server Database Project, IBMi, RavenDB, MongoDB, MySQL, Entity Framework, Dapper, MSMQ
- **Tools:** Visual Studio Code, MS Visual Studio, MySQL Workbench, MS SQL Server, AWS, Azure, SonarQube, Bitbucket, JIRA, Confluence, Rally, Mingle, Crucible and FishEye, TFS, Subversion, GitLab, GitHub, Selenium, SourceTree, Visual Studio Online, Code Composer Studio (CCStudio)

Professional Experience

Software/Solution Architect (Full-time position)
Nelnet Inc., Centennial, CO, US

May 2017 – present

- Architected and designed to develop scalable, secure and efficient solutions that align with business goals
- Provided technical directions, training, and mentoring to the team members
- Defined, maintained and communicated an enterprise technology and architecture strategy, fitness functions that objectively define the implementation of the technology and architecture strategy
- Architected and led the migration of 30+ enterprise applications from on-prem infrastructure to AWS
- Established enterprise level technical initiatives in collaboration with non-technical audiences as System Owners, Program Managers and Directors

Yury Sidarenka

- Designed enterprise-wide solutions with multiple complex integrations, created designs that can be re-used across the enterprise
- Assessed various software license models to determine the cost-benefit and trade offs for achieving business value and technology objectives
- Technologies used: .NET, RESTful API, OIDC/OAuth/JWT, Service Discovery, Service Mash, Docker/Containers, AWS, serverless, HTML, Sass/Less/CSS, Redis, SQL Server, EntityFramework, Vault, Consul, Istio, NSwag, MediatR, TypeScript/JavaScript, Angular, NPM, GitLab, Webpack
- **Major accomplishment:** Led the migration from a monolithic architecture to microservices, resulting in scalable and secure systems compliant with NIST and OWASP standards. Utilized GitLab, WAF, Vault, Consul, Kong, Docker, Angular/TypeScript, .NET, OIDC/OAuth, and Redis to enhance the data handling from IBMi and SQL servers. Delivered a seamless experience for 40+ million customers with notable improvements in security and performance. Led the migration from on-prem infrastructure to AWS.

Sr. Software Engineer (Full-time position)
Location3 Media, Denver, CO, US

January 2015 – April 2017

- Developed web sites using Angular/AngularJS + Typescript, AngularJS Material Design, web APIs
- Worked with data using MS SQL Server using Dapper
- Technologies used: C#, API, HTML, CSS, SQL Server, Dapper, Autofac, TypeScript/JavaScript, AngularJS, NPM, Gulp, Webpack, Azure (WebJobs, Functions, ServiceBus)
- **Major accomplishment:** Developed a suite of tools to power and scale local digital marketing strategy. Designed and developed “LocalACT” as Business Listings, Paid Media, Social, Sales Audit and Admin Tools.

Sr. Software Engineer (Full-time position)
IHS Inc., Englewood, CO, US

November 2013 – December 2014

- Developed web site (SPA/SPI), web services, web API
- Worked with data using MS SQL Server, parameterized query and Entity Framework
- Developed user friendly interface for creating a diagram on client side using JointJS
- Created hybrid mobile apps based on HTML, CSS and JS using Cordova, JQuery mobile, KnockoutJS
- Technologies used: C#/ASP.NET MVC, WebAPI, HTML, CSS, SQL Server, TFS, Rally, JSON RPC, JavaScript, JQuery, Cordova/PhoneGap, KnockoutJS, SignalR, JointJS, AngularJS, Backbone, Bootstrap, UML, LabVIEW
- **Major accomplishment:** Developed web application, web API and hybrid mobile applications. Improved workflow and delivered new features for customers to see all data in real-time.

Software Engineer II (Full-time position)
EchoStar Corporation, Englewood, CO, US

November 2010 – November 2013

- Developed web, desktop applications and web services
- Created database, tables, queries, procedures, functions and triggers using MySQL Workbench, RavenDB, MongoDB
- Developed code using DirectShow to show/grab video stream from any device (web cam, video capture cards and etc.)

Yury Sidarenka

- Technologies used: C#/ASP.NET MVC, HTML, CSS, LabVIEW, MySQL, MongoDB, RavenDB, WPF, JSON RPC, JavaScript, JQuery, KnockoutJS, SignalR, Bootstrap, UML, DirectShow, JIRA, SVN, LINQ
- Major accomplishment:** Designed and developed web and desktop applications. Software decreased a time of deployment, enhanced quality of set-top-boxes and reduced a cost of testing system by 80%.

Software Engineer (Full-time position)

August 2007 – November 2009

BelStiepf, Minsk, Belarus

Project: Trading software system based on “TradeX”

- Developed application using C#/VB.NET and MS SQL Server for waybills and reports printing
- Performed MS SQL Server administration, created database, queries, functions and procedures using MS SQL Server, analyzed requirements, designed, and implemented software modules/packages
- Technologies used: C#/VB.NET, SQL, T-SQL, MS SQL Server 2000, TCP/IP, FTP, SVN
- Major accomplishment:** Developed application installed in more than 30 stores. Software reduced the number of staff required by 20%.

Software Engineer (Full-time position)

February 2005 – July 2007

Agat-System, Minsk, Belarus

Project: Digital radio communication of standard APCO 25

- Developed software modules for radio stations “Tsifra-M”, Programming microcontrollers TMS55XX
- Implemented the data exchange and noise proof coding algorithms using C/C++ for microcontrollers
- Designed and implemented application (VB, SQL, C/C++) to transfer data from PC to radio station control microprocessor, implemented data transfer via USB
- Technologies used: C/C++, VB, SQL, USB
- Major accomplishment:** Created plan and several applications to deploy radio communication network (standard APCO 25) in the Republic of Belarus.

Software Developer Assistant

September 2004 – January 2005

Belarusian State University of Informatics and Radio Electronics, Minsk, Belarus

Project: Designed and developed an IQ testing application

- The application was implemented using C/C++, WIN32 API, and MS Visual Studio 6.0
- Assisted the lead scientific researcher in conducting experiments, collecting data, and analyzing results
- Major accomplishment:** Software had helped to determine the average level of education of students.

Education

Belarusian State University of Informatics and Radio Electronics, Minsk, Belarus (September 2000 – June 2005)

Bachelor/Master of Science, Degree in Telecommunication Networks and Devices

Professional Training and Certification

- Model Context Protocol (MCP): Hands-On with Agentic AI (LinkedIn, August 2025)
- AI on Azure: Intelligent Apps (O'Reilly, July 2025)
- AWS Certified Solutions Architect – Associate (AWS, March 2024)

- Kong Gateway Operations (KGAC-201) (Kong, July 2022)
- Passed Certified LabVIEW Developer (CLD) exam (National Instruments, 2012)
- Passed Certified LabVIEW Associate Developer (CLAD) exam (National Instruments, 2011)
- Project manager introduction course (DP Consulting training center, 2008)
- C/C++ programming course (BELHARD training center, 2006)