Ivan Zakrevskyi

Full-Stack Software Developer

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SUMMARY

Full-stack Software Developer with 4+ years of hands-on experience building and maintaining enterprise web applications using C#, ASP.NET Core / .NET Framework, MVC, Razor, and SQL Server. Experienced in a large enterprise multi-tenant ASP.NET Core logistics SaaS codebase with SQL Server databases of 500+ tables and 2,000+ stored procedures, serving clients such as Sony, Panasonic, Hawk-Eye, Estée Lauder, and Kubota. Strong background in Entity Framework (code-first), Dapper, LINQ, and writing optimized SQL queries, stored procedures, and database schemas to support scalable, high-performance systems. Experienced in developing and consuming RESTful and SOAP APIs (JSON/XML, OAuth2/OpenID, JWT, SAML2), and building responsive user interfaces with JavaScript/TypeScript, React, Angular, Tailwind CSS, HTML5, and CSS3. Hands-on experience with Azure and AWS, CI/CD pipelines (Azure DevOps), Git-based workflows, and performance optimization through async programming. Practices AI-assisted development with Claude Code and OpenAI Codex.

SKILLS

Languages: C#, JavaScript/TypeScript, SQL, HTML/CSS, Python
Frameworks: ASP.NET Core (Web API, MVC, Razor), Entity Framework Core, Dapper, AutoMapper, Autofac, React, Angular, Node.js, PWA/Service Workers, Tailwind CSS, SignalR, Quartz.NET, DevExpress Reporting
Databases & Caching: SQL Server, PostgreSQL, MySQL, MongoDB, Redis
APIs & Protocols: REST, OpenAPI/Swagger, JSON, GraphQL (basic)
Integrations: FedEx, UPS, Purolator, ArcBest, CH Robinson carrier APIs, SAP IDoc, EDI 214, SOAP/WCF, SFTP, SAML2 SSO, Azure AD/MSAL
Architecture: Multi-tenant SaaS, layered/clean architecture, service/repository, IoC/DI (Autofac), Hosted Services, SignalR, RabbitMQ
Cloud & DevOps: Azure (App Service, Functions, Blob Storage, Key Vault, Azure SQL), Docker, Kubernetes/AKS, CI/CD (Azure DevOps, GitHub Actions), AWS
Testing: xUnit, NUnit, Moq, Playwright, integration tests (WebApplicationFactory)
Tools & Practices: Visual Studio, Postman, Swagger, Jira, Git/GitHub, Agile/Scrum, pull requests, code reviews, static analysis
AI-Assisted Development: Claude Code, OpenAI Codex, GitHub Copilot, custom agent skills/CLAUDE.md, MCP servers, AI-assisted refactoring and code reviews
Professional: Clear communicator, collaborative teammate, strong ownership; committed to clean code and continuous improvements.

WORK EXPERIENCE

AMETEK Aerospace & Defense | Feb 2026 – Present *Software Developer (Contract, Remote)*

- Stabilized and enhanced a legacy Classic ASP / VBScript Quality Control web application supporting manufacturing operations, fixing defects in serial-number generation logic, admin access control, and data-import tooling critical to QC throughput.

- Diagnosed and resolved production issues across the full stack - stored procedures, IIS configuration, database connectivity, and SQL Server restores - improving reliability of manufacturing and QC workflows.
- Authored migration assessments and risk analyses for modernizing the legacy Classic ASP codebase to ASP.NET Core 10, identifying technical debt, dependencies, and phased migration paths; published findings and approach at zakrevskyi.dev/blog/classic-asp-to-aspnet-core.
- Re-wrote the Classic ASP quality-control application as a production-ready ASP.NET Core 10 MVC system in two weeks, covering database redesign, a Tailwind CSS design system, Windows SSO, time-zone and localization handling, and an offline-capable PWA (detailed under Projects).
- Accelerated delivery with AI-assisted development (Claude Code, OpenAI Codex), codifying architecture, SQL, and UI conventions as agent skills for code generation, testing, and reviews.

LNI Software Inc. | Sep 2022 – Jan 2026 *Software Developer (Mississauga, ON)*

- Analyzed requirements with BAs/PMs, designed solutions, and participated in Agile/Scrum activities.
- Developed front- and back-end functionality for enterprise web applications using C#/ASP.NET Core (Razor/MVC), JavaScript/React, integrated EF Core/Dapper data layers on SQL Server, implemented Identity and JWT for secure REST APIs.
- Worked in Enodia, a large multi-tenant ASP.NET Core MVC logistics SaaS platform spanning 35+ functional areas, with tenant isolation, per-client configuration, and SAML2/JWT authentication.
- Worked daily with SQL Server databases of 500+ tables and 2,000+ stored procedures; designed and tuned stored procedures, paged/filtered queries, and schema changes consumed through a Dapper repository layer.
- Delivered client-specific features, integrations, and production support for enterprise customers including Sony, Panasonic, Hawk-Eye, Estée Lauder, and Kubota.
- Upgraded client applications from .NET 5/7 to .NET 9/10 across a large layered enterprise solution.
- Led migration of legacy ASP.NET applications to ASP.NET Core (.NET Framework to .NET Core).
- Implemented background jobs with Hosted Services and Quartz.NET; automated SFTP, SAP IDoc, and EDI 214 file-processing workflows.
- Optimized SQL Server performance via query tuning, indexing, Dapper, and stored procedures.
- Applied IoC/DI, async patterns, interfaces, and clean architecture to improve maintainability and testability.
- Delivered via CI/CD (Azure DevOps, GitHub Actions); created branches, opened PRs, and resolved merge conflicts.
- Followed coding standards, conducted code reviews, and wrote unit/integration tests (xUnit/NUnit).
- Communicated status and risks to senior developers/PMs, and provided production support.

PROJECTS

Quality Control Platform Rewrite - AMETEK Aerospace & Defense | *ASP.NET Core 10, C#, MVC/Razor, Dapper, Autofac, AutoMapper, SQL Server, ASP.NET Core Identity, Tailwind CSS, webpack/Gulp, PWA*

- Re-wrote a legacy Classic ASP / VBScript quality-control system as an ASP.NET Core 10 MVC application, delivering a production-ready release in two weeks; structured the solution into five layers - presentation, domain, Dapper data access, identity, and a design-system library - wired through Autofac DI with a service/repository split and AutoMapper-backed view models.

- Redesigned the database, replacing duplicated per-plant tables and ad-hoc serial pools with a normalized manufacturer - factory - product family - item model; authored 100+ versioned migrations and stored procedures consumed through Dapper, and migrated legacy serial history and user accounts into the new schema without downtime for the plants.
- Replaced legacy login with Windows (Negotiate/Kerberos) single sign-on backed by custom Dapper ASP.NET Core Identity stores (integer keys, no EF), adding role-based admin activation, manufacturer-scoped data access, and a full audit/activity trail of serial-number changes.
- Built a reusable Tailwind CSS design system - light/dark themes driven by CSS design tokens, compiled from SCSS and ES modules via webpack/Gulp with code-split shared bundles - and documented it in a live component gallery, then rebuilt the shop-floor UX on it (serial generation and assignment, scan and bulk actions, server-paged infinite-scroll lists, dashboard metrics).
- Implemented time-zone-safe auditing by persisting all timestamps in UTC and rendering them in the viewer's local zone, and added English/Spanish localization through resource files, cookie-based culture switching, and localized data-annotation validation.
- Delivered an offline-capable PWA (service worker plus a local queue) so operators can update serial-number lifecycle status on the floor without connectivity, syncing queued changes back to the server once the network returns.

Enodia Multi-Tenant Logistics Platform - LNI Software | *ASP.NET Core 9/10, C#, MVC, Dapper, SQL Server, Autofac, AutoMapper, SignalR, Tailwind CSS, webpack/Gulp, DevExpress, SAML2*

- Developed features across a modular, multi-tenant logistics SaaS serving enterprise clients, including warehouse orders, shipments, yard reservations, claims, returns, load audits, and carrier agreements.
- Followed a layered architecture (MVC Areas, AutoMapper-backed application services, Dapper repositories over stored procedures, Autofac IoC) and wrote paged, filtered stored procedures with SQL-injection and SARGability reviews.
- Built responsive UI with Tailwind CSS, ES-module JavaScript, and a shared design-system Razor class library, including barcode scanning, charts, data grids, signature capture, and real-time SignalR notifications.
- Integrated carrier APIs (FedEx SOAP/WCF, UPS REST, ArcBest, CH Robinson, Purolator), contributed to a freight rating engine, and generated PDF/Excel documents with DevExpress Reporting, iText, and OpenXML.

Enterprise Integration Services - Sony & Panasonic North America | *.NET 10, Windows Services, Quartz.NET, Serilog, SFTP, EDI, SAP IDoc, Azure Blob Storage*

- Built and maintained Quartz.NET Windows services that import SAP IDoc order files, export orders, load shipments, and process EDI 214 shipment-status messages for Sony and Panasonic supply-chain operations.
- Automated shipment tracking, shipping-document loading, and FedEx Insight file processing; read carrier mailboxes with MSAL-authenticated access and archived documents to Azure Blob Storage.

Soil Tracking - Background services | *ASP.NET Core, C#, RabbitMQ, SignalR, Dapper, Quartz.NET*

- Architected an event-driven background processing system using ASP.NET Core Hosted Services to receive real-time GPS telemetry from Samsara via registered webhooks, enabling near real-time soil-load tracking across the fleet.
- Designed a publisher/consumer messaging pipeline with RabbitMQ, where webhook events were published to a queue and consumed by background workers, decoupling telemetry ingestion from the main web application for improved scalability and fault tolerance.

- Implemented real-time UI updates via SignalR, pushing telemetry and soil-load changes to connected clients immediately upon database persistence, eliminating the need for manual refreshes.
- Built scheduled background jobs with Quartz.NET to poll soil-load data from on-site scanners at recurring intervals, automatically creating load records in the database without manual intervention.

Legacy Web Application Modernization - Premium Line Transport | *ASP.NET Core 8, C#, Razor Pages, DevExpress, Hosted Services*

- Led end-to-end migration of a legacy ASP.NET Web Forms application (.NET Framework 3.5) to ASP.NET Core 8, modernizing the entire stack and eliminating years of accumulated technical debt.
- Rebuilt the UI using MVC Controllers and Razor Views, applying dependency injection and the service/repository pattern to improve testability, maintainability, and separation of concerns.
- Replaced a Java/Tomcat background service with ASP.NET Core Hosted Services that monitor SFTP endpoints and load Compugen freight tender files into the Trackmate database, consolidating onto a single tech stack.
- Migrated Crystal Reports to DevExpress Reporting for PDF freight document generation, improving rendering performance and maintainability.

Logistics Platform - Third-Party Integrations & API Development | *ASP.NET Core, C#, REST, SOAP, JWT*

- Integrated logistics web application with Hwy905 SOAP web services to query shipment data and retrieve shipping documents.
- Consumed FedEx and UPS REST APIs for shipment tracking and retrieval of signed Proof of Delivery (POD) documents, saved directly into the claims system.
- Designed and published secure RESTful Web APIs for external reporting system, implementing JWT-based authentication and authorization to protect endpoints.

EDUCATION

Computer Programming and Analysis Diploma
George Brown College - Toronto, ON | 2022 – 2025
Relevant coursework: Web Development, Cloud Computing, Database Systems, Software Architecture, Agile Methodologies.