

Dmitry Matveyev

Senior .NET Engineer & Tech Lead | Legacy Modernization + AI-Assisted Delivery | 10+ Years

Poznań, Poland [LinkedIn](#) dmitry.matveyev.job@gmail.com [+48 571937963](#) [GitHub](#)

Senior Software Engineer combining 10+ years of hands-on .NET development with technical leadership experience. Specialized in modernizing legacy systems - migrating applications from .NET Framework to .NET 8, transitioning databases (CosmosDB → MongoDB), and evolving architectures from monoliths to microservices. Leverages AI-assisted development (Claude, Copilot) to accelerate delivery while maintaining code quality. Equally effective as individual contributor and team lead.

Key Achievements

- **AI-assisted development:** 1+ year integrating LLMs (Claude, Copilot) into daily engineering - configured subagents and integrated MCP servers for routine tasks
- **.NET modernization:** Migrated Web API layer (auth, business logic, PDF operations, ORM) of enterprise web application from .NET Framework 4.7 to .NET 8 - eliminated ~15 legacy/deprecated dependencies and modernized CI/CD
- **Database performance optimization:** Removed ~350GB of unused indexes (eliminated ~38.8M daily wasted reads); cleared a 21-month archival backlog of 1.5M records via batched deletion strategy
- **Drove database migration:** Initiated and led migration from CosmosDB to MongoDB, reducing infrastructure costs and overcoming platform limitations
- **Scaled engineering team:** Grew team from 5 to 9 engineers as Team Lead, implementing Scrum to improve predictability and stakeholder transparency
- **Architected microservices:** Designed event-driven architecture using Azure Event Hubs; implemented standardized interservice communication patterns

Technical Expertise

Core (10+ years)

C#, .NET (Framework / Core / 8), ASP.NET (Web API, MVC), SQL Server, Entity Framework

Strong (3+ years)

Azure (Event Hubs, SQL, Blob, Service Bus), MongoDB, Redis, Docker, WPF, Xamarin

Working Knowledge

Go, Kotlin, Node.js, Kubernetes, gRPC, MySQL, Oracle

Architecture & Practices

Microservices, Event-driven architecture, SOA, REST API design, CI/CD, Scrum, Performance optimization

AI-Assisted Development

GitHub Copilot, Claude Code, prompt engineering, agentic workflows, MCP servers, model selection strategies

Experience

HIQO SOLUTIONS

July 2023 - Present

Senior Software Engineer

Project: Enterprise platform for regulated subscriber enrollment and compliance

- Migrated Web API layer of enterprise application from .NET Framework 4.7 to .NET 8 - covering auth (OWIN → ASP.NET Core), DI infrastructure, ORM, business logic, and PDF operations; eliminated ~15 legacy/deprecated dependencies and modernized CI/CD pipelines
- Designed and implemented event-driven logging architecture using Azure Event Hubs - replaced direct DB logging with a centralized pipeline syncing to Cloud and On-Premises databases, reducing infrastructure costs
- Resolved high-impact production performance issues: removed ~350GB of unused indexes (eliminated ~38.8M daily wasted reads), diagnosed a memory leak using a custom dump-comparison tool I built (root cause: incorrect DI lifetime registration), and cleared a 21-month archival backlog of 1.5M records via batched deletion
- Revived abandoned integration test suite and integrated it into the CI/CD pipeline, catching regressions in complex business logic before release
- Implemented email-based 2FA for the user enrollment flow (DB schema, backend code generation/validation, frontend, feature flagging)
- Integrated AI-assisted development workflow (Copilot + Claude) into daily engineering practice, including subagents and MCP server usage for repetitive tasks

Technologies: .NET 8, .NET Framework, ASP.NET Core, Entity Framework Core, Azure Event Hubs, Azure SQL Database, SQL Server, NLog, RabbitMQ, Azure DevOps, GitHub Copilot, Claude

GEEK-SOLUTIONS

November 2022 - July 2023

Senior Software Engineer

Project: Retail chain management system with hardware integration

- Developed features for large-scale retail operations platform using Azure Service Bus for async messaging
- Collaborated on system architecture decisions for hardware-software integration

Technologies: .NET Framework, SQL Server, Redis, Azure Service Bus, Azure Web Apps/Jobs

EON GAMES

August 2020 - October 2022

Development Team Lead

September 2021 - October 2022

Project: Last Outlander (mobile game backend)

- Scaled team from 5 to 9 engineers: hired 3 developers and 1 system architect, conducted technical interviews
- Implemented Scrum methodology, significantly reducing estimation variance and improving stakeholder visibility
- Led database migration from CosmosDB to MongoDB to reduce costs and overcome platform limitations
- Decoupled microservices into separate repositories, enabling independent deployment pipelines
- Established production monitoring rotation and incident response procedures

Technologies: .NET Core, MongoDB, Redis, Azure (Event Hubs, Blob, Application Insights), Docker, Kubernetes, Scrum

Senior Software Engineer

August 2020 - August 2021

- Architected microservices communication layer: standardized service SDK pattern and API contracts
- Migrated client-server communication from WebSocket RPC to REST, improving maintainability and performance
- Built game configuration microservice enabling rapid A/B testing iterations
- Implemented authentication microservice with token-based security
- Conducted performance testing and optimization using JMeter

Technologies: .NET Core, MongoDB, Redis, Azure Event Hubs, Docker, Kubernetes, JMeter, Kanban

EXADEL

November 2018 - August 2020

Senior Software Engineer

Project: Tax consulting platform - core infrastructure

- Developed infrastructure components for enterprise tax consulting system
- Performed data migrations between system generations, ensuring data integrity
- Conducted performance profiling and optimization for high-load scenarios
- Maintained test coverage and performed code reviews; acted as team lead backup

Technologies: .NET Core, SQL Server, MongoDB, Redis, Azure, Docker, Scrum

INTETICS

July 2018 - October 2018

Senior Software Engineer

Project: Payment processing service (IDT Corporation)

- Built microservices in Go with gRPC for sensitive payment data handling
- Performed database migrations and integrated external SOAP services
- Developed POC projects: Slack chatbot with Google Sheets integration, gRPC-based chat system

Technologies: Go, gRPC, Oracle DB, MongoDB, Docker, Google Sheets API

EXADEL

August 2017 - July 2018

Senior Software Engineer

Project: e-470 toll road system modernization

- Participated in architectural migration from stored procedure-heavy SQL Server implementation to .NET-based SOA
- Established unit testing practices using NSubstitute; performed performance profiling and optimization

Technologies: ASP.NET Web API, Azure, SQL Server, Dapper, FluentMigrator, Unity DI

ARMADA LABS

October 2016 - June 2017

Senior Software Engineer

Project: Surefire - mortgage CRM

- Migrated codebase from .NET to Node.js; set up Docker-based test environment on Linux
- Conducted code reviews, mentored junior developers, and performed load testing

Technologies: ASP.NET Web API, Node.js, MySQL, SQL Server, Docker, JMeter

TECHNIKON

September 2014 - October 2016

Software Engineer → Senior Software Engineer / Team Lead

Industrial automation software (CNC systems, CAD/CAE, web portals)

- Promoted to Team Lead: made architectural decisions, chose technologies, mentored juniors
- Built enterprise information system for CNC machines (ASP.NET Web API + WPF)
- Developed desktop applications and custom WPF controls with multi-database support (SQL Server, Oracle)

Technologies: ASP.NET Web API, WPF, SQL Server, Oracle, Entity Framework, Autofac

INVELIO

November 2013 - September 2014

Junior Software Engineer

Betting system platform

- Developed betting terminal UI and indices calculation; optimized SQL stored procedures

Technologies: WPF, ASP.NET WebForms, WCF, SQL Server

Side Projects

Full product lifecycle experience: idea → design → implementation → deployment → marketing

EverPal (in development)

[everpal.app](https://www.everpal.app) (<https://www.everpal.app>) · [GitHub](https://github.com/dmitrymatveyev/ever-pal) (<https://github.com/dmitrymatveyev/ever-pal>) (first version, .NET 8 + React) · Since May 2025

Pet health log for owners of sick pets: one tap logs an event (poop, vomit, meds, etc.), and the app produces a dated report to hand to the vet. Logging is free; the printable vet report is a paid one-time unlock.

- Rebuilt the first version (.NET 8 API, React 19, PostgreSQL, Firebase Auth, Stripe webhooks, server-side PDFs) as a static offline-first PWA with no backend or accounts, cutting hosting costs and the time it takes to start logging
- Added privacy-first product analytics (anonymous PostHog events, bot filtering) to measure activation and return rate, plus an SEO landing page (free printable log) to bring in search traffic
- Covered the app with Playwright end-to-end tests: paywall, offline mode, backup/restore, install prompt, mobile layouts and service-worker updates

Stack: JavaScript, HTML/CSS, PWA (service worker, offline), Stripe Payment Links, PostHog, Playwright, Vercel. **First version:** .NET 8, React 19, PostgreSQL, Fly.io, Firebase Auth

Buy faster

[GitHub](https://github.com/dmitrymatveyev/buy-faster) (<https://github.com/dmitrymatveyev/buy-faster>) · Published on Google Play

Shopping list optimizer - Android app with Google AdMob integration. Managed full lifecycle including Google Ads campaigns.

Stack: Kotlin, Android SDK, Google AdMob

Scatterbrain

[GitHub](https://github.com/dmitrymatveyev/scatterbrain) (<https://github.com/dmitrymatveyev/scatterbrain>)

Cross-platform shopping app prototype built with Xamarin.Forms, demonstrating code sharing across iOS/Android.

Stack: C#, Xamarin.Forms, SQLite

Real estate web scraper

[GitHub](https://github.com/dmitrymatveyev/list-buildings) (<https://github.com/dmitrymatveyev/list-buildings>)

Go-based web crawler for filtering real estate listings by building material - solved personal need, demonstrates Go proficiency.

Stack: Go, goquery

Languages

Russian (native) · English (C1) · Polish (A2)

Education

IT Academy (Belarus)

2013

ASP.Net Developer

Belarusian State University of Informatics and Radioelectronics

Bachelor in radioelectronics, specialization in medical electronics (2008) · Master in radiophysics (2009) · Researcher in radiophysics (2012)