

Denis Šijanov

Backend Engineer, C#/.NET

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I design and build backend systems that are easy to understand, maintain, and evolve. My strongest work is in existing business systems where domain rules, data correctness, backward compatibility, safe rollout, and long-term maintainability matter.

Professional Experience

08/2016 - 05/2026 (9+ years)

Mews

Software Engineer / Senior Software Engineer - 03/2022 - 05/2026

- Worked as a backend developer in the finance area of a hospitality SaaS platform, touching billing, accounts, reservations, taxes, fiscalization, reporting, and correctness of financial data.
- Analyzed domain problems, clarified expected behavior with the team, designed backend changes, implemented business logic, wrote tests, improved observability, and planned safe rollout.
- Worked on changes where accounting rules, historical data, hotel configuration, migrations, backward compatibility, and feature flags had to fit together without surprising users.
- Contributed to team knowledge sharing around billing behavior and helped newcomers understand the domain through documentation and guided onboarding.

Unicode Systems

Full Stack Engineer, part-time - 03/2020 - 03/2022

- Worked on a Head Office System for central administration and communication with back-office systems at individual locations.
- Focused mainly on backend business logic in C#/.NET, tests, and smaller frontend changes inside an existing business application.

GOPAS - StoryBoard

Software Developer, part-time - 07/2017 - 03/2020

- Built major functional parts of an internal WPF/MVVM desktop application for creating interactive software training.
- Worked across user interface, application logic, data mapping, lesson editor, export pipeline, deployment, and fixes in the screen-capture core.
- Learned to work with real user workflows, historical behavior, data model constraints, and hidden contracts between the editor and downstream tools.

Atos

Software Developer, part-time - 08/2016 - 06/2017

- First professional software development role in a team working on larger business applications.
- Learned to work in an existing codebase, make changes within constraints, and deliver in established team processes.

Education

Charles University

Faculty of Mathematics and Physics, Computer Science - 2014 - 2019

SPŠE Ječná

Computer Science - 2010 - 2014

Technical Skills

Backend

C#, .NET, SQL Server, Entity Framework, application services, business logic, tests

Architecture

domain boundaries, explicit contracts, legacy refactoring, data model design, maintainability

Delivery

data migrations, feature flags, observability, reports, staged rollout, documentation

Desktop

WPF, MVVM, Windows API, screen capture, export pipelines, ClickOnce deployment

Languages

Czech

Native speaker

English

Professional working proficiency - used daily for 4 years at Mews

Working Style

- Understand domain rules before changing implementation details.
- Keep risky changes observable and reversible through feature flags, reports, and staged rollout.
- Document complex behavior when it helps support, onboarding, or future debugging.
- Prefer practical clarity over labels: the work should show what I can do.

Personal Projects

Product and learning systems built outside work

AI Coach

Personal planning and reflection application

- Built around daily planning, reality capture, tasks, notes, rituals, and evening reflection.
- Separates plan from reality, so planning can improve from evidence instead of memory alone.
- Used as a real beta system in my own life, then adjusted according to what actually helps.
- A place where I practice product thinking, mobile-first workflows, and AI-assisted development.

AI Factory

Agent workflow and learning system

- Experiments with turning a repository task board into structured work for coding agents.
- Connects task selection, context handoff, branch work, verification, pull requests, and feedback.
- Focuses on rules, boundaries, output review, and making AI-assisted work less dependent on constant prompting.
- Also turns notes and documentation into reusable learning material and understanding checks.

Selected Projects

Professional case studies from work experience

Mews / Billing & Finance

Historical correctness of accounting categories

C#, .NET, data correctness, migration

- Stabilized financial reporting by storing accounting categories directly on items instead of recalculating them from current configuration.
- Refactored and documented the calculation so support could verify how a specific item was classified.
- Prepared dry-run and fix-mode migration tooling, including exports for more than 5000 hotels.

Feature Flag Runner

C#, .NET, feature flags, observability

- Created a shared runner pattern for changes behind feature flags.
- Supported switching behavior, running a new path in the background, measuring execution, monitoring errors, and comparing results.
- Made logging and measurement a natural part of risky backend changes.

Separating the Billing domain inside a monolith

Architecture proposal, Entity Framework

- Prepared a proposal for gradually clarifying Billing boundaries without a large rewrite.
- Mapped implicit dependencies around shared entities, loaders, navigation properties, and domain logic coupled to persistence.
- Proposed narrower contracts, explicit loading and mapping, and clearer domain entry points.

Turning documentation into team learning

Documentation, onboarding, knowledge sharing

- Helped onboard newcomers into the billing area and contributed to domain documentation.
- Experimented with a shared Micro-based learning flow that made progress, questions, and peer help visible.
- Took away a stronger view of documentation as a living team practice, not just a static link.

Other Selected Work

Storyboard

GOPAS / desktop application

- Took over a WPF/MVVM training editor and implemented most of the functional application surface.
- Extended the database model, introduced mapping between data entities, domain objects, and view models, and refined the export pipeline.
- Worked across UI, application logic, Windows integration, deployment, and downstream export formats.

Unicode Head Office System

Unicode Systems / business application

- Worked on a Head Office System for central administration and communication with back-office systems.
- Focused mainly on backend business logic in C#/.NET, tests, and smaller frontend changes inside an existing application.
- Helped maintain and evolve an internal system used across individual locations.