

Alexey Elizarov

Backend Engineer | C# and .NET

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Profile

Backend engineer building C#/.NET services for B2B logistics and AI products. Hands-on experience with reliable messaging, database integration and automated quality checks. Technical Lead for SmartKitten, responsible for architecture, backend delivery and the engineering harness for AI-assisted development.

Technical skills

Backend: C#, .NET, ASP.NET Core, REST APIs, Python, FastAPI, WebSockets
Data and messaging: PostgreSQL, SQL Server, ClickHouse, Redis, MongoDB, RabbitMQ
Delivery and quality: Git, Docker, Kubernetes, GitLab CI/CD, Testcontainers, unit and integration testing

Experience

ATI.SU | Junior Backend Developer (.NET/C#) | Nov 2025 - Present

- Built key components of a new carrier-search service: event-driven ClickHouse replicas, candidate selection from vehicle data and cargo-search history, and global exclusion rules.
- Implemented a SQL Server transactional outbox with background RabbitMQ publishing, retries and backlog monitoring; batched message processing with System.Threading.Channels to reduce PostgreSQL round trips.
- Built reusable GitLab CI checks comparing post-deployment metrics with a baseline; integrated the component with two backend services.
- Develop fleet-data APIs and electronic transport-document readiness checks; validate changes with unit, integration and architecture tests, including real databases in containers.

novAlcarius | Technical Lead, SmartKitten | Mar 2026 - Present

- Lead architecture and backend development of an AI workspace for documents and collaboration; define service boundaries and API contracts across .NET and Python services.
- Build model-provider integrations, streaming responses, real-time messaging, access controls, subscriptions and usage quotas.
- Implement a coding-agent harness with repository context, reusable skills and scoped tasks; establish quality gates covering tests, static analysis, review and security checks.

R-Pro | Junior / Junior+ C#/.NET Backend Developer | Feb 2025 - Feb 2026

- Reduced visual content creation time by 80% with a C#/Python add-on automating simulation-scene conversion, Blender rendering and image/video export.
- Consolidated 20,000+ lines of robot-postprocessor C# code into a shared modular architecture with asynchronous command processing and file generation.
- Developed industrial applications including a WPF/MVVM digital twin with ASP.NET Core state synchronisation and an industrial-camera integration for quality control.

COMSYS | Junior C++ Developer, part-time | Jun 2024 - Jan 2025

- Built backend applications for internal logistics and project-management systems; improved PostgreSQL data access and technical-documentation workflows.

Education and languages

ITMO University - Bachelor's degree in Software Engineering, expected Jun 2027.

English: B2, self-assessed. Available to discuss a prompt start, subject to employment authorisation.