

DANIL LOBANOV

Senior Backend Engineer | .NET, Distributed Systems, Real-Time Platforms

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Technical Skills

Languages & Frameworks: C#, .NET 8/6, ASP.NET Core, Go (Golang), Unity (Multiplayer / Netcode)

Networking & Multiplayer: TCP/UDP, socket programming, REST, gRPC, WebSockets, SignalR, server - authoritative game logic, matchmaking & session orchestration

Messaging & Event Driven: RabbitMQ, Kafka, MassTransit, event - driven architectures, Saga pattern

Observability & Reliability: Prometheus, Grafana, structured logging, metrics (latency, throughput, queue depth)

DevOps & Testing: Docker, Kubernetes, Helm, GitLab CI/CD, GitHub Actions, xUnit, Moq, NSubstitute, integration tests

Professional Experience

Senior Game Backend Engineer · Appfox

Oct 2025 – Present | Remote

Stack: C#, .NET 8, ASP.NET Core, PostgreSQL, EF Core, Redis, RabbitMQ, MassTransit, Kafka, SignalR, Docker, Kubernetes, CQRS, MediatR, GitLab CI/CD

- Engineered a hybrid matchmaking service using Redis and PostgreSQL on Azure Kubernetes Service, reducing queue time by 60% for concurrent multiplayer sessions.
- Redesigned the combat simulation backend with CQRS, MediatR, and stateless processing, increasing throughput by 4x without additional infrastructure.
- Replaced HTTP polling with SignalR real-time channels, reducing game traffic by 40% and improving connection reliability.
- Implemented distributed transaction orchestration with MassTransit Saga across Identity, Gateway, Combat, and Inventory services.
- Built Kubernetes deployment workflows with Helm, GitLab CI/CD, automated rollback, and zero-downtime release support.

.NET Backend Engineer · CRM Systems · Valletta Software

Mar 2023 – Oct 2025 | Remote

Stack: C#, .NET 6/8, ASP.NET Core, PostgreSQL, EF Core, RabbitMQ, MassTransit, Redis, CQRS, MediatR, Docker, GitHub Actions, xUnit, Moq

- Built backend services for a B2B recruitment CRM used by HR teams across Europe, covering candidate management, notifications, analytics, and reporting.
- Designed asynchronous notification pipelines with RabbitMQ, MassTransit, SMTP, and Telegram integrations.
- Optimized PostgreSQL and Redis-backed reporting workflows, improving performance and reliability for high-volume CRM operations.
- Delivered REST APIs and backend services with .NET 6/8, ASP.NET Core, EF Core, CQRS, MediatR, Docker, and GitHub Actions.
- Improved backend quality through integration tests, xUnit, NSubstitute, CI/CD checks, and clearer service boundaries.

.NET Backend Engineer · IoT Smart Agricultural Container System · Empire Of Bloom

Sep 2021 – Feb 2023 | China, Guangzhou

Stack: C#, .NET, MQTT, Modbus RTU, gRPC, RabbitMQ, PostgreSQL, Docker, Azure IoT Hub, Kafka, CQRS

- Developed .NET microservices for an IoT smart container platform handling task scheduling, telemetry, sensor monitoring, and reporting.
- Built gRPC and message-driven communication between internal services and IoT device workflows.
- Integrated MQTT, Modbus RTU, RabbitMQ, PostgreSQL, Docker, and Azure IoT Hub for real-time operational data processing.
- Improved service reliability with automated tests, CI/CD workflows, structured logging, and production observability.

Education

M.Sc. Software Engineering, 2024 – 2026

Moscow Engineering Physics Institute (MEPhI), Russia

GPA 3.7