

Danil Lobanov

Senior Backend Engineer

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SUMMARY

Senior Backend Engineer with product ownership. I build systems and I own outcomes. **5+ years** shipping production backends then stepping back to ask whether the right thing was built at all. Discovery session to database schema to deployment pipeline to post-launch metrics; the full loop, no handoffs. **C#/.NET** for scale and reliability; Go and Flutter when the job calls for it. **Four production systems built from zero.**

EXPERIENCE

AppFox — Senior Game Backend Developer

Remote

Distributed game backend, 10+ ASP.NET Core microservices

Dec 2025 – present (8 months)

- Built and maintained a distributed game backend with 10+ ASP.NET Core microservices, including API Gateway/BFF, Identity, User/Profile, Game, Characters, Inventory, Store, Admin, Combat, and orchestration services, using PostgreSQL, RabbitMQ/MassTransit, Redis, Docker, and CI/CD.
- Reduced User/Profile API latency by up to 50% by optimizing ASP.NET Core/.NET hot paths, Entity Framework/PostgreSQL queries, service-to-service communication, and Gateway/BFF response aggregation, improving performance for latency-sensitive player profile flows.
- Delivered 15+ backend features across authentication, JWT authorization, player lifecycle, in-game economy, soft/hard currency, inventory, store, character progression, tutorials, combat-related flows, and live-ops admin workflows.
- Reduced manual QA/support work by implementing admin APIs for RBAC, roles/permissions, user profile lookup, premium status, and currency credit/debit operations, enabling safe operations without direct database access.
- Improved release reliability by adding unit tests, integration tests, regression coverage, smoke scripts, health checks, Swagger/OpenAPI documentation, Postman collections, structured logging, and correlation IDs for critical gameplay and account flows.

Valletta Software Development — Full-Stack Developer

Remote

HRTech SaaS, modular monolith with AI/ML integration

Mar 2023 – Oct 2025 (2 years 8 months)

- Built a full-stack HRTech SaaS using ASP.NET Core, C#, .NET, EF Core, PostgreSQL, Next.js, TypeScript, Docker, and MinIO, delivering 50+ REST API endpoints for employee management, onboarding, engagement analytics, document management, offboarding, metrics, and authentication.
- Designed and implemented a scalable modular monolith architecture with separated Backend API, Core domain layer, Worker service, and Frontend, applying clean architecture, dependency injection, background jobs, event-driven processing, outbox pattern, and domain-driven design principles.
- Automated manual HR lifecycle workflows by building onboarding plans, task tracking, reminders, offboarding checklists, employee timeline events, manager dashboards, and async worker processes, improving process visibility and reducing manual coordination effort.
- Integrated AI/ML capabilities with Semantic Kernel and Google Gemini, including AI-generated onboarding plans, HR insights, embeddings, AI operation logging, rationale tracking, PII masking, and secure prompt/data handling for sensitive employee information.
- Improved production readiness and reliability with JWT authentication, ASP.NET Identity, RBAC, manager-scoped access control, PostgreSQL migrations, object storage, Docker Compose, CI/CD-ready structure, API documentation, health checks, seed scripts, and 20+ unit/integration/load tests.

Empire of Bloom — C#/.NET Developer

Guangzhou, China

End-to-end IoT automation platform for smart hydroponics

Sept 2021 – Feb 2023 (1 year 6 months)

- Designed and built an end-to-end IoT automation platform for a smart hydroponic system, combining ASP.NET Core 6, PostgreSQL, EF Core, MQTT, Raspberry Pi edge services, Blazor Server, Telegram Bot, SignalR, and Docker Compose into a single automated monitoring and control workflow.
- Automated telemetry collection from sensors and edge devices by implementing an MQTT bridge, background workers, REST API endpoints, device authentication, and telemetry buffering, reducing manual device checks and improving reliability during temporary backend or network interruptions.
- Built a centralized backend automation layer with JWT authentication, REST APIs, Swagger/OpenAPI, health checks, EF Core migrations, telemetry history, settings, commands, alerts, harvest logs, and system parameters, replacing fragmented manual operations with API-driven device management.

- Improved operational visibility by adding real-time monitoring, SignalR live updates, alerts, daily reports, and health endpoints, enabling faster detection of abnormal temperature, humidity, pH/EC, device status, and command execution issues.
- Containerized and documented the full platform using Docker Compose, PostgreSQL, Adminer, MQTT broker, backend service, admin panel, and bot service, reducing local/server setup to a repeatable one-command deployment and simplifying onboarding, testing, and maintenance.

PROJECTS

QuickMind — Cross-platform flashcard app with spaced-repetition engine and Kanban card board. Ships signed binaries for Windows, macOS (Intel + Apple Silicon), and Linux. Built solo end to end: algorithm, UI, release pipeline. 17 GitHub stars.

JobJoy — European job-search mobile app. Real-time candidate-employer chat over WebSockets, AI vacancy matching via Claude API, GDPR-compliant data model.

EDUCATION

Moscow Engineering Physics Institute — M.Sc., Software Engineering	Moscow, Russia
<i>GPA: 3.8/4.00</i>	Sept 2024 – July 2026

People's Friendship University of Russia — BS, Agronomy	Moscow, Russia
<i>GPA: 3.1/4.00</i>	Sept 2011 – June 2015

SKILLS

Backend: C#, .NET 6–10, ASP.NET Core Minimal API, EF Core, gRPC, SignalR, REST, .NET Aspire, Go

Frontend: TypeScript, Next.js, Hooks, Fluent UI, Flutter

Cloud & Infrastructure: Azure (Container Apps, VNets, VPNs), Docker, Kubernetes, Nginx, Prometheus, Azure Monitor, Application Insights

Testing & Delivery: xUnit, Moq, NSubstitute, Integration & E2E Tests, GitLab CI/CD, GitHub Actions, Scrum, Kanban

AI & LLM: Codex, Claude, Kimi, Qwen, LangGraph, Semantic Kernel

Database: PostgreSQL, Redis, Cosmos DB, SQL Server

Messaging & Brokers: RabbitMQ, MassTransit, Kafka, Azure Service Bus, MQTT

Languages: Russian (native), English (B2), Chinese (B1)