Danil Lobanov

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EDUCATION

National Research Nuclear University MEPhI — Moscow, Russia
Master's in Software Engineering — *Sep. 2024 – Jul. 2026*

Peoples' Friendship University of Russia — Moscow, Russia
Bachelor's in Agronomy — *Sep. 2011 – Jul. 2015*

EXPERIENCE

Backend Developer — Mar. 2023 – Present
Valletta Software Development LTD — *Remote (Malta)*

- Developed core modules of a high-load CRM system for recruitment automation using **.NET Core 6/8**, **C#**, and **PostgreSQL**.
- Implemented scalable REST APIs to handle multi-role access, advanced filtering, and candidate tracking across multiple pipelines.
- Created a robust notification microservice integrating **SMTP** and **Telegram Bot API**, powered by **RabbitMQ** and **MassTransit**.
- Introduced **Polly**-based retry logic and circuit breakers, increasing fault tolerance of async communication.
- Optimized database performance by rewriting slow SQL queries and adding Redis-based caching for reports and dashboards.

Backend Developer — Sep. 2021 – Feb. 2023
Empire of Bloom — *Hybrid (China)*

- Engineered microservices for a smart agriculture SaaS platform, managing automated tasks and real-time device monitoring.
- Utilized **.NET 9**, **gRPC**, and **REST API** to handle bi-directional communication between cloud backend and IoT edge devices.
- Integrated data ingestion from **MQTT** sensors using **RabbitMQ** queues and **MassTransit** consumers.
- Leveraged Redis and Prometheus/Grafana to enhance system observability, enabling faster incident response and bottleneck detection.
- Wrote extensive test coverage using **xUnit**, **NSubstitute**, and **FluentAssertions**, reducing production regressions by 30%.

PROJECTS

Notification System | *.NET, RabbitMQ, Redis, Docker, Telegram API* — 2023

- Developed a fault-tolerant notification system integrated with email and Telegram alerts using **SMTP** and **Telegram Bot API**.
- Implemented a background job queue using **RabbitMQ** and **MassTransit**, with retries and fallbacks managed by **Polly**.

IoT Task Scheduler for Smart Containers | *.NET 9, gRPC, PostgreSQL, MQTT, Grafana* — 2022

- Created a distributed scheduling system for smart containers controlling temperature, humidity, and lighting via gRPC.
- Processed real-time sensor data from MQTT brokers and dispatched control signals asynchronously.

TECHNICAL SKILLS

Languages: C#, Go, SQL (PostgreSQL), JavaScript, TypeScript
Frameworks: .NET 6/8/9, REST API, gRPC, MassTransit, React, Next.js
Tools: Docker, GitHub Actions, Redis, RabbitMQ, MQTT, Prometheus, Grafana
Testing: xUnit, NSubstitute, FluentAssertions
CI/CD: GitHub Actions, Docker Compose, Multi-stage builds