Danil Lobanov

Backend Developer (Golang, C#, .NET, PostgreSQL, Docker)

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Summary

Software Engineer with over 3 years of experience in backend development, specializing in scalable SaaS products and enterprise-grade systems (CRM, IoT). Proficient in **C# (.NET)**, **Go**, **PostgreSQL**, microservices architecture, REST/gRPC APIs, and message brokers (**RabbitMQ**, **MQTT**). Delivered high-impact solutions for HR automation and smart container management, achieving significant improvements in performance, reliability, and delivery speed.

Key Skills

Go | C# | .NET Core/6/8 | PostgreSQL | RabbitMQ | Kafka | Redis | gRPC | REST API | Docker | GitHub Actions | Prometheus | Grafana | xUnit | NSubstitute | Clean Architecture | Microservices | TypeScript | Node.js | React | Next.js | TDD | Scrum | Async Communication

Work Experience

Backend Developer   March 2023 – Present

Valletta Software Development LTD   Malta (Remote)

Worked on a CRM system for automating recruitment processes for a European B2B client. Part of an 8-person Scrum team.

Responsibilities:

- Developed the candidate management module (CRUD, filters, access roles) using **C#** and **.NET Core** (migrated from .NET 6 to .NET 8).
- Built REST APIs for the admin panel and a notification microservice with **SMTP** and **Telegram API** integration via **RabbitMQ** (using **MassTransit**, retry with **Polly**).
- Optimized **PostgreSQL** queries with **Entity Framework Core** for faster analytical reports.
- Wrote unit and integration tests (**xUnit**, **NSubstitute**, **FluentAssertions**, ~60% coverage).

Achievements:

- Improved analytical report speed by 25% through query optimization and **Redis** caching.
- Reduced notification delivery errors by 20% and increased delivery speed by 35%.
- Reduced deployment time from 10 to 3 minutes using **GitHub Actions** and **Docker**.

Tech Stack: C#, .NET 6/8, Go, ASP.NET Core, PostgreSQL, Entity Framework Core, RabbitMQ, MassTransit, Redis, Docker, GitHub Actions, xUnit, NSubstitute, FluentAssertions, Swagger, Prometheus, Grafana

Backend Developer   September 2021 – February 2023

Empire of Bloom   China (Hybrid)

Developed a task management and monitoring system for a smart container device (SaaS platform for organic product cultivation, www.empireofbloom.com). Worked in a 3-person Scrum team under a technical lead focused on low-level firmware (**FreeRTOS**, **MQTT**, **Modbus**).

Responsibilities:

- Built two microservices using **C#** and **.NET 9** with **REST API** and **gRPC** for task management and monitoring.
- Integrated **RabbitMQ** (via **MassTransit**) for asynchronous processing of **MQTT** sensor data.
- Optimized **PostgreSQL** queries with **Entity Framework Core** for reporting.

Achievements:

- Accelerated container monitoring by 25% with **RabbitMQ** and **MassTransit** for **MQTT** data.
- Reduced report generation time by 20% with **PostgreSQL** optimization and **Redis** caching.
- Decreased production bugs by 30% through testing.

Tech Stack: C#, .NET 9, Go, gRPC, PostgreSQL, Entity Framework Core, RabbitMQ, MassTransit, MQTT (Mosquitto), Modbus, Docker, GitHub Actions, xUnit, NSubstitute, FluentAssertions, Swagger, Prometheus, Grafana

Education

National Research Nuclear University MEPhI,   September 2024 – July 2026

Master's Degree – Software Engineering,   Russia, Moscow

Peoples' Friendship University of Russia,   September 2011 – July 2015

Bachelor's Degree – Agronomy   Russia, Moscow

Additional Information

• Languages: Russian (Native), English (C1 – Advanced), Chinese (B1 – Intermediate)
• Hobbies: Open-source contributions, Game development, Sound engineering, Gaming, Ping Pong