Anton Gavrilov

Team Lead | Senior .NET Backend Engineer | Distributed Systems & Fintech

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SUMMARY

Backend engineer and team lead with 5+ years of experience building and modernizing high-load distributed systems, currently in fintech. Twice helped rebuild legacy monoliths with business logic in stored procedures into event-driven microservices. Now leading the integration of Finstar Financial Group's platform solution into an international lending product while writing production code, running a Kubernetes cluster of 30+ microservices and driving AI adoption (MCP servers, AI agents). Works with C#/.NET, Go, Kafka, Temporal, PostgreSQL and MongoDB, applying Domain-Driven Design (DDD), Clean Architecture, and the outbox and saga patterns. Open to international roles combining hands-on development with technical leadership.

SKILLS

Languages & Frameworks: C#, .NET, ASP.NET Core, Go, TypeScript, NestJS, Node.js, Python, React, React Native, .NET MAUI, Angular

Messaging & Workflows: Apache Kafka, RabbitMQ, Temporal, Outbox Pattern, Saga Pattern

Databases: PostgreSQL, MongoDB, Microsoft SQL Server (T-SQL, stored procedures), MySQL, Redis, ClickHouse

Cloud & DevOps: Kubernetes, Helm, Docker, GitLab CI/CD, GitHub Actions

Observability: OpenTelemetry, Jaeger, Prometheus, Graylog

Architecture: Microservices, Distributed Systems, Event-Driven Architecture, Domain-Driven Design, Clean Architecture, ADRs, Performance Testing

Leadership & AI: Technical Leadership, Hiring, Onboarding, Mentoring, Stakeholder Communication, MCP Servers, AI Agents

EXPERIENCE

Team Lead / Senior .NET Backend Engineer Dec 2025 – Present
Finstar Financial Group | Belgrade, Serbia (Hybrid)

- Promoted to lead the integration of Finstar's platform solution into an international lending product; also write production services in C#/.NET and technical services in Go.
- Lead a team of 3–5 engineers.
- Responsible for system health and responsiveness, databases and a Kubernetes cluster running 30+ microservices, managed with Helm and CI/CD.
- Deployed the platform into the client's infrastructure, plus additional internal services for extra features.
- Take part in ADR discussions and architecture and system design decisions.
- Take part in hiring and assessments; own onboarding and mentoring of new team members.
- Lead AI adoption: deployed MCP servers giving internal AI agents centralized, secure access to infrastructure and observability tools, speeding up bug localization and performance-anomaly detection and improving QA efficiency.

.NET Backend Developer (Modernization & Microservices) Jul 2024 – Dec 2025
Finstar Financial Group | Belgrade, Serbia (Hybrid)

- Selected for the core team rebuilding the legacy loan management system, which could not handle the required load, as event-driven microservices.
- Implemented or contributed to about 5 core services holding the most critical data: clients, orders, payment details, transactions, documents and files.
- Proposed Domain-Driven Design and Clean Architecture, created the service project structure and helped agree the main analytical artifacts.
- Implemented service integration with MongoDB, PostgreSQL and Redis; took part in the Kafka messaging implementation.

- Contributed to an open-source outbox library; after load testing, took part in designing the team's internal outbox package. Each service handles 500+ RPS.
- Delivered the Temporal integration for long-running background processing and data consistency across services.
- Took part in building observability (OpenTelemetry, Graylog, Jaeger, Prometheus) and in performance testing and optimization.

.NET Backend Developer (Legacy Systems) Aug 2023 – Jul 2024
Finstar Financial Group | Remote

- Developed .NET APIs, SQL Server stored procedures and other database objects for a loan management system deployed into each client's own infrastructure.
- Built an end-to-end testing service combining API requests and database checks, reducing manual QA and speeding up regression checks.
- Worked on 3 projects: features on the first, optimization on the second, end-to-end implementation on the third.
- Implemented RabbitMQ producers and consumers, cutting response time by up to 50% on critical user flows and improving availability.

Backend Developer Jul 2022 – Aug 2023
Cartis

- Worked on StartYourTime, a second-screen service for streaming platforms that syncs a content feed to what viewers are watching.
- One of two engineers who, with the team lead, redesigned a .NET monolith with logic in MySQL stored procedures into 4 NestJS and MongoDB services using DDD and Clean Architecture.
- Cut response time by up to 70% and new-feature development time by up to 50%; the team grew from 2 to 5 engineers.
- Built a containerized ETL that migrated MySQL data to MongoDB with no downtime; moved logging to ClickHouse for analytics.
- Built GitLab CI/CD pipelines and containerized services with Docker.
- Clarified business needs, made architecture decisions with the team lead and presented the new architecture to the CEO.

Full Stack Engineer Oct 2020 – Jul 2021
Optimajet

- Owned features end to end on DWKit, a low-code BPM platform, using React, .NET and PostgreSQL.
- Built integrations with Google Docs, Dropbox and Microsoft 365.
- Built a React Native MVP for running and managing workflows on mobile.

OPEN-SOURCE CONTRIBUTIONS

- DotNetCore.CAP (7k-star .NET outbox and event bus library, C#): added parallel sending of delayed messages, released in v8.4.1.
- Voiden (1.8k-star open-source API client, Electron, React, TypeScript): fixed environment state leaking between projects, plus UI theming fixes.

PROJECTS

- Rentava (rentava.rs): AI-powered bot that finds apartments in Belgrade from a natural-language request and sends matches to Telegram. Go and Python microservices.
- Profitocracy: open-source mobile budget tracker built with .NET MAUI.
- ScienceArchive: open-source publishing platform for independent scientists. C#, Angular, PostgreSQL, GitHub Actions.
- ChronOTP: open-source desktop app that generates TOTP codes for two-factor authentication.

EDUCATION

Moscow College of Information Technologies, Moscow, Russia 2017 – 2021