Fedor Nadutkin

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PROFILE

Senior Backend / Platform Engineer, CTO. Experienced in designing and operating high-load backend and AI platforms. Strong ownership of business-critical services: architecture, development, scaling, production, SLO/SLA.

EDUCATION

ITMO University   Saint Petersburg, Russia
M.Sc. in Programming and Artificial Intelligence   *2023 – Present*

ITMO University   Saint Petersburg, Russia
B.Sc. in Applied Mathematics and Computer Science   *2019 – 2023*

EXPERIENCE

Dzen (VK)   Saint Petersburg
Senior Backend Engineer / Platform Owner   *July 2023 – Present*

- Owner and maintainer of core platform services: comments, search, SEO pipeline, sports widgets, AI assistants.
- Comments service: up to 2000–2500 RPS for reads and 15–20 RPS for writes; responsible for scalability and reliability.
- Search services: 200–300 RPS on average; optimization of latency and result quality.
- Sports services: 150–200 RPS on average, peak traffic up to 800–1000 RPS during major events.
- SEO pipeline: design and ownership of a business-critical offline pipeline generating sitemaps and SEO artifacts; all Dzen content flows through the system.
- Design and integration of AI assistants and LLM-based product features.
- Platform-wide NER service (in progress): unified entity extraction infrastructure for multiple products.
- LLM Proxy platform: centralized token accounting, budget control, quota management, and access regulation for LLM usage.
- Production ownership: monitoring, alerting, incident response, SLO management.

SmartHomeDevices (SberDevices)   Russia
Backend Engineer   *May 2022 – July 2023*

- Development of partner integration services and product backend systems.
- Attribute extraction from unstructured product data using NLP and parsing techniques.
- Performance and reliability improvements of backend services.

Developer Soft / DevExpress   Russia
Software Engineer   *August 2021 – March 2022*

- Development of custom aggregation functions and diagnostic tooling.
- Algorithms for data analysis and visualization.

PERSONAL PROJECTS

EventioHappBot   Telegram
CTO / Co-Founder   *2024 – Present*

- AI-powered Telegram bot for discovering events and activities across multiple cities (Saint Petersburg, Moscow, Tel Aviv, Samara).
- Event search by date, interests, and user geolocation.
- LLM- and NLP-based aggregation and classification of events.
- End-to-end ownership: product design, backend architecture, AI logic, production operations.
- Technologies: Python, LangChain, Telegram API, PostgreSQL, Redis.

Technical Skills

Languages: Java, Go, Python, Kotlin, SQL, Bash

Backend: Spring Boot, Ktor, REST, gRPC

AI / LLM: LangChain, LLM integration, NER, embeddings

Data Stores: PostgreSQL, MongoDB, Redis, YDB, YT, OpenSearch / Elasticsearch

Messaging: Apache Kafka, RabbitMQ

Infrastructure: Docker, CI/CD, Git

Monitoring: Prometheus, Grafana, Kibana