

# Sokolov Denis

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## EDUCATION

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- **ITMO University x Yandex** ITMO, Saint-Petersburg  
*Master in High-load Systems Software*  
*Coursework: Algorithms and Data Structures, C++ programming,*  
*Advanced Databases, SHAD Computer networks,*  
*Distributed systems, Cloud Computing*  
*Sept 2024 - Present*
- **ITMO University** ITMO, Saint-Petersburg  
*Bachelor in Information System and Technologies*  
*Coursework: Programming Technologies, Multiprocessor Programming, Network Technologies, Development Tools,*  
*Databases, Web Programming, Operating Systems, Algorithms and Data Structures*  
*Diploma: Backend development of the application for automating the execution of raw materials assemblies*  
*Sept 2020 - July 2024*

## SKILLS SUMMARY

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- **Languages:** Go, Python, C#, JavaScript
- **Databases:** PostgreSQL, MongoDB, Sqlite, Redis
- **Technologies:** REST, gRPC, Git, Docker, CI/CD Gitlab, Kafka, Jira, OpenTelemetry
- **Frameworks:** Gin Gonic, Echo, Go-chi, jmoiron/sqlx, gomock, go-sqlxmock

## EXPERIENCE

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- **Notissimus** | *Go, PostgreSQL, JavaScript* Nov 2023 - Jan 2025  
*Software Engineer*
  - **Application Architecture and Development**
    - \* Designed and developed an MVC multi-layered application architecture
    - \* Created database architecture compliant with the 3rd normal form (at least)
  - **Key Implementations**
    - \* Developed an external service to save the history of updated components
    - \* Restricted users from switching between pages by implementing a chain of API calls
    - \* Integrated JavaScript scripts
  - **Project Support**
    - \* Rapidly identified and fixed bugs in an unfamiliar project
    - \* Demonstrated projects to customers
- **Tinkoff** | *C#, ASP.NETCore, EFCore, PostgreSQL, OpenTelemetry, Jaeger* June 2023 - Aug 2023  
*Backend Development, Intern*
  - **Service Stability and Testing**
    - \* Enhanced the stability of several services through bug fixes
    - \* Wrote unit and integration tests for all modified code
  - **Distributed Tracing**
    - \* Added distributed OpenTelemetry tracing in 2 team services and 8 services of neighboring teams
    - \* Collected traces for HTTP, ASP.NET Core, MediatR requests, and EF Core by integrating a new version of the NuGet package
    - \* Enabled trace monitoring in the Jaeger UI
- **ITMO SourceKit** | *C#, CodeAnalysis, Xunit* May 2023  
*Backend Development, Intern*
  - Implemented an analyzer to ensure Dictionary keys implement the IEquatable interface (for the purpose of future students educational purposes)
  - Developed tests and samples to verify correctness

## COURSES

- **Ozon Tech Route 256** | *C#, ASP.NETCore, Dapper, PostgreSQL, Kafka, gRPC, Protobuf* Feb 2023 - Apr 2023  
*Backend Development, Junior level*
  - Worked with databases using the Dapper framework and PostgreSQL
  - Implemented tasks requiring asynchronous or parallel execution
  - Facilitated asynchronous interaction of microservices using Kafka
  - Managed synchronous interaction of microservices using gRPC and Protobuf technology
  - Developed unit and integration tests

## ACHIEVEMENTS

- **YDB Distributed Tracing** | *Golang, OpenTelemetry, Grafana, YDB, testify* Sep 2024 - June 2025  
*Contributing*
  - **Exporter of traces, logs and metrics**
    - \* Supporting YDB (Yandex DataBase) Open Telemetry exporter of metrics, logs and traces in columnar storage
    - \* Refactoring, updated metric scheme and new supported metric types: histogram, exp-histogram, summary
    - \* New types of authorization in YDB: writing within file, using service account and using metadata service
    - \* Unit and integration tests
  - **Grafana plugin for viewing**
    - \* Supported reading data from YDB and refactoring
    - \* Added Date DateTime macros for YQL-queries
    - \* New converters from YDB-types to Go-types: base, string, serial, containers, Optional-types. Also included nested-types
    - \* Unit and integration tests
- **Yaiot** | *Python, YDB, aiogram* Nov 2024  
*Hackathon participant, Backend*
  - Implementing telegram bot for generating user-links of YandexSmartHome scenarios, that stores in YDB. Everyone who has this link can easily just click on it and run scenario
  - Audience award as a result

## PROJECTS

- **Taxi Analytics** | *Golang, cobra, MongoDB, Kafka, confluent - kafka - go, Redis, go - redis* Jan 2025  
*Own Development, Backend*
  - Getting data from NewYork taxi dataset and creating two MongoDB collections: raw data, trip start and end data separately using aggregation pipeline
  - Implementing horizontally-scaled service, that writes messages to Kafka with exactly once guarantee, turned off auto.commit and earliest auto.offset.reset
  - Reading data by Kafka-consumer and updating current state in Redis (amount of active trips by location id) with an emergency restart possibility
  - Selection from Redis for each district at the current time of the most popular district from which people travel
- **MyRedis** | *Golang, Redis* Aug 2024 - Present  
*Own Development, Backend*
  - Implemented RESP (Redis serialization protocol) that decodes client requests and encodes responses
  - Added PING, ECHO, GET, and SET (with 'px' expiry parameter) commands support, enabling execution from concurrent connections and handling multiple concurrent requests per connection