

Yurii Filatov

Backend Software Developer interested in Highload Development

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EDUCATION

Higher School of Economics

St. Petersburg, Russia

Bachelor of Applied Mathematics and Computer Science

Class of 2026

Relevant courses: Parallel Computing, Systems Design, Operating Systems by Yandex Data School, Algorithms and Data Structures, Database systems, Software Engineering, Computer Architecture

SKILLS

Programming Languages: C++, Go, Java, C, Python, Bash

Technologies and Tools: Userver, Boost, Apache Kafka, Docker, MongoDB, Redis, PostgreSQL

Skills: Concurrent Programming, Algorithms and Data Structures, Linux Internals, Clean Architecture

EXPERIENCE

Yandex, Backend Software Engineer | C++, Python, YTsarus, MongoDB, LogBroker Jul. 2024 – Present

Yandex Ecom and RideTech Antifraud Team

St. Petersburg, Russia

- **Implemented a comprehensive backend system for verifying drivers during instant payout processes.** The system established seamless interactions with internal services, implemented a real-time analytical rules engine, set up a message queue system for data transfer, developed a manual moderation workflow and optimized system performance.
- **Developed a dynamic configuration update system for a mobile anti-fraud service**, enabling fine-tuned control of its behaviour from the backend. The system supports authorization proxies, encoding and decoding of configurations.
- **Enhanced the stability and performance of a key antifraud service** by implementing real-time monitoring of stability metrics and identifying areas for improving processing times during routine maintenance and drills.
- **Led the integration of antifraud measures for agency orders**, implemented a temporary solution to fraud issues and later developing a more robust system that involved optimizing the export of analytical data.
- **Conducted refactoring and added new functionality to existing systems**, integrating with additional services to enrich data streams, which improved the overall quality and effectiveness of fraud detection.

Yandex, Intern C++ developer | C++, Python, YTsarus, YQL, Docker

Jun. 2023 – Oct. 2023

Geoservices development team

St. Petersburg, Russia

- Refactored and modernized an organizational search index generation service, improved documentation, introduced new index types, resolved key reliability issues, and implemented comprehensive test coverage.
- Built a testing tool for evaluating the effectiveness of automated moderation systems for organizational changes, using historical verdicts to enhance validation accuracy.
- Designed and implemented a reindexing workflow for search documents to support the seamless integration of new indexes while maintaining data integrity.

Algorithms and Data Structures Teacher

Jan. 2024 – Jun. 2024

North-Caucasus Federal University School

Stavropol, Russia

- Designed and developed a course on Algorithms and Data Structures.
- Created and curated programming contests

PROJECTS

Mobile Educational Platform | Java, Spring, Hibernate, PostgreSQL

Jan. 2024 – Jun. 2024

Higher School of Economics

St. Petersburg, Russia

- Modern educational platform
- Experience with the frameworks we are interested in
- Experience deploying an application on a server
- Team application development experience

LaTeX code editor | C++, Qt Creator, Swagger, MongoDB

Feb. 2023 – Jul. 2023

Higher School of Economics

St. Petersburg, Russia

- Modern editor for LaTeX. Convenient for new users, has a low barrier to entry.
- It has the ability to work together on one project
- Wide functionality: easy work with mathematical formulas, text highlighting and padding, pdf preview, document templates

Other Achievements

1/2 ICPC Northern Eurasia Finals | Third Degree Diploma Dec. 2024

1/4 ICPC | Ranked 36 out of 100 Nov. 2023

1/4 ICPC | Ranked 22 out of 100 Nov. 2022