Fedor Firsov
Backend developer

📞 +7 (968)-778-88-60
✉ 179firsov@gmail.com
⭘ GitHub firsov179
✈ firsov179

EDUCATION

- **Higher School of Economics. Faculty of Computer Science** *2021-present*
  Bachelor's Programme Software Engineering. CGPA: 8.33/10, Percentile: 16%
  HSE is included in top 300 QS World University Rankings

- **179 Mathematical school** *2018-2021*
  Math & IT class
  Top 3 in Moscow and top 7 in Russia according to the official 2018 ranking.

WORK EXPERIENCE

- **Yandex Alice internship** *Jan - May 2023*
  The research and refinement of existing testing mechanisms of Alice microservices.
  - Development of a proprietary Python framework for writing semi-integration tests, including multithreaded code and networking with other Yandex microservices using AppHost.
  - Working with Protocol Buffers, gRPC and HTTP technologies for data exchange between services.
  - Experience working with the Arcadia version control system and passing/conducting code review.
  - Research experience of the logic and features of a complex micro-service architecture.
  - Experience writing documentation.

- **Yandex Go internship** *Jan - Jul 2022*
  Development of the open source asynchronous framework for creating microservices. [GitHub]
  - Writing highly loaded multithreaded code for the userver framework - a framework for writing fast and simple microservices in C++.
  - Working with network protocols, databases, code generation.
  - Experience in improving the quality and efficiency of C++ code.
  - Experience working with GitHub and Arcadia version control systems, Bitbucket.
  - Working in the linux operating system.

- **Teaching in 179 School** *2020 - 2022*
  Conducted theoretical and practical seminars for junior grades.
  - Assistance in teaching mathematics at the math club for grades 6, 7 and 8.
  - Assistance on entrance exams to 179 school.
  - Assistance and volunteering in the summer math camp "Scarlet Sails".

PERSONAL PROJECTS

- **WordDuel** [Github] *2023*
  Client server mobile application created as a coursework in the second year.
  - Development of a mobile application on Java with a multithreaded asynchronous server on Python for multiplayer crossword games.
  - The full cycle of mobile application development, starting from architecture and design development, ending with testing and presentation of the application.
  - It was added to the TOP-10 best coursework of the educational program for 2023.

- **FarmingAssistant** *2022*
  Educational project of 1st year students of the HSE FCS.
  - Development of the client-server mobile application with machine learning elements.
  - Teamwork on a cross-platform mobile application.
  - Developed custom, simple machine learning models for implementing a recommendation system.
  - Integrated gradient boosting using CatBoost into a mobile application.

TECHNICAL SKILLS AND INTERESTS

Languages:	C++, Python, Java, SQL, C, C#, JavaScript, Bash, HTML, Latex
Technologies:	PostgreSQL, MySQL, REST API, TCP, HTTP, AppHost, Git, Bitbucket, Linux/Windows/MacOS
Frameworks and libraries:	Boost, Userver, QT, Scikit-learn, PyTorch
Soft Skills:	