Ivan Hryakov

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EDUCATION

- **National Research ITMO University** — Saint Petersburg, Russia
  Bachelor of Informational Systems and Technologies — *Sept. 2020 - Aug. 2024*
  - **Relevant courses**: Object-Oriented Programming Paradigms and Patterns, C#, Java, Tech Tools, Algorithms and Data Structures, Discrete Math, Linear Algebra

PROJECTS

- ### Code Generation
  C# | Java | Roslyn | Spring Boot

  - A Java server with using Spring Boot and a Java file parser in C# was created.
  - With the information that received after parsing and Roslyn with Syntax Tree, a client generator for this server was created in C#

- ### Reports
  C# | OOP | Swagger

  - Server application in C# for automatic creation of reports on the work of the team for a period of time
  - A three level architecture: Presentation Layer, DAL and BLL. Using object-oriented programming patterns
  - Implemented server using Swagger platform for RESTful API

- ### Backups
  C# | OOP

  - A C# console application for creating backup copies of files in Json format
  - Designed and implemented a backup system in accordance with the principles of object orientation

- ### Banks
  C# | OOP

  - A C# console application for creation a banking system with ability to create multiple types of accounts. And the availability of functions to put money into the account, withdraw money, transfer between accounts
  - Application of patterns of an Abstract factory, Builder, Strategy, Facade
  - Console interface (Spectre.Console)

- ### Rubick's Cube 3x3 Solver
  C++ | Algorithms

  - The program is a console application developed in C++17
  - Implementation of the Rubik's cube assembly in 7 actions using the Friedrich algorithm
  - Possibility to enter any state of the cube and get a sequence of steps for the correct side

- ### XML Transport Data Parser
  C++ | Algorithms | xml

  - The program is a console application developed in C++17
  - Transport data parser from the official website of Saint Petersburg routes in xml format
  - Processing and analysis of this data; finding the shortest route

- ### Archiver
  C | Algorithms

  - The program is a console application developed in C99
  - Implemented RLE compression

PROGRAMMING SKILLS

- **Languages**: C#, Java, C++, SQL
- **Technologies**: Git, GitHub, CMake, Linux, Roslyn
- **Knowledge**: Algorithms and Data Structures, Discrete Math, Object-Oriented Programming Paradigms and Patterns, Linear Algebra, Mathematical Analysis