

# Vladislav Shcherbatov

## C++ Developer

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🐙 [github.com/punkertron](https://github.com/punkertron)

📌 [t.me/punkertron](https://t.me/punkertron)

## Skills

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- Programming Languages: C++ (11, 17, 20); C#; SQL (PL/SQL); Python
- Development Tools and Frameworks: Docker; Qt; Dear ImGui; SDL; Azure Pipelines; CMake; Make; Git

## Work Experience

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**ABBYY** (A leading provider of AI-driven document processing and NLP solutions)

**Belgrade, Serbia**

**Software developer**

**Oct 2023 – present**

- Developed microservices to bring natural language processing (NLP) technologies to the cloud-based document processing platform called Vantage. Developed on Windows (for historical reasons) for Linux (production environment).
- Contributed to the release of the 2.4, 2.6, 3.0 versions of Vantage with over 30,000 lines of modified code.
- Used C++ for integration with NLP technologies and C# for interaction with backend services.
- Doubled the total number of tests by adding entirely new test types when launching Azure pipelines. Used GoogleTest, NUnit and xUnit frameworks for testing.

**Bank DOM.RF** (One of the largest banks in Russia)

**Moscow, Russia**

**Service developer**

**Mar 2021 – May 2023**

- Led visual services development in the data management department. Created and curated data sources (ETL).
- Developed analytical services using Python, VBA, and Tableau, with one tool exceeding 10,000 uses.
- Created multiple PL/SQL scripts for data retrieval, calculations, and checks. Optimized existing SQL scripts, for one of them reducing daily risk-metrics calculation from 8 hours to 20 minutes.

## Technical Projects

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### BitTorrent Client

- Developed a custom C++ library using multithreading for file downloads via the BitTorrent protocol.
- Created both a command-line version and a graphical interface using Qt.

### File Storage service

- Implemented a REST API in C++ using the Crow for file storage, utilizing PostgreSQL and Docker.
- Developed user authentication, file upload and download requests, and file listing features.

### STL Reimplementation in C++

- Reimplemented STL containers (vector, list, stack) and smart pointers.
- Developed comprehensive unit tests for validation using the doctest (C++) testing framework.

## Education

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**Plekhanov Russian University of Economics**

Bachelor in Finance, 2017-2021

**School 42** (French programming school, C/C++)

2021 - 2024