

PAVEL BITYUKOV

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EDUCATION

National Research University Higher School of Economics, Faculty of Computer Science

Applied Mathematics and Computer Science, Distributed Systems, 3nd year, GPA 9

2023 – June 2027

Effective C++ course

Spectral technologies, HFT fund

2024

EXPERIENCE

SWE at Autonomous Vehicles

Yandex

September 2025 – Present

Core ROS-like framework team

- Architected and implemented a diagnostic system, delivering a new user-facing C++ API and backend
- Built a root cause analysis tool to identify failure causes in autonomous driving systems
- Implemented a backup diagnostic system to ensure fault tolerance

Teaching Assistant in Advanced C++, CAOS

HSE

September 2024 – Present

- Conducted code review of students' homework
- Explained complex and unclear topics in depth
- Held final project consultations
- Examined students knowledge of theory

SWE at Perforator

July 2024 – July 2025

Yandex, Perforator – a distributed profiler, the main profiler in Yandex

- Implemented PHP language support
- Implemented a new client-side gRPC load balancing algorithm, achieving a 4× reduction in storage memory consumption
- Optimized agent CPU-time by 30% (optimized standard Go functions, implemented code generation instead of go.reflect)
- Performed R&D, searched for potential memory optimization points

SKILLS

Languages: C++, C, Go, Python

Developer Tools: Linux, git, Cmake, perf, perforator, pprof, gdb

Libraries: C++ STL, Boost, LLVM

ACHIEVEMENTS

- Winner of the Dano Data Analysis Olympiad, 12th place out of 7000 participants 2022
- Prizewinner of the Moscow Informatics Olympiad 2023
- Prizewinner of the Open Informatics Olympiad 2022