Danil Mozzhevilov

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Education

ITMO University — Saint Petersburg, Russia
Bachelor of Science in Applied mathematics and Computer science — *2020 - 2024*

Experience

Kotlin SWE — Feb 2023 – present
Yandex Fintech — *Saint-Petersburg, Russia*

- **Autotopup during transaction (Autofund):**
  - Developed an innovative system that seamlessly transfers funds from donor accounts during transactions to cover deficits.
  - Autofund's code functions **asynchronously** and guarantees **idempotency**.
  - Established robust monitoring and fulfill regulatory compliance, including automated report generation via JasperReports from backoffice platform.
  - Enhanced a notification system using **Kafka** to proactively communicate with users about failed funding attempts, improving user experience and engagement.
- **Secure database access platform for backoffice:**
  - Developed a microservice enabling support and back-office to **access real-time database information** and **perform role-based actions**, ensuring bank's compliance.
  - Utilized the **backend-driven UI** library to create an intuitive and efficient front-end interface.
  - Enhanced backend functionality to support streamlined operations and reduce approval bottlenecks.
  - Significantly improved **ticket resolution speed** and **operational efficiency** for support and back office teams.

C++ SWE Intern — Feb 2022 – June 2022
Yandex Browser — *Saint-Petersburg, Russia*

- Redesigned the password form generator into **an abstract factory**.
- Supported/merged migration from 99^{th} to 100^{th} Chromium core.
- Reworked legacy code in extension bar.

Projects

ML-based Autobetter | *Python, Pytorch, Kafka, Selenium*

- Developed an automated system for real-time analysis and evaluation of online game matches.
- Assessed game situations to identify potential betting opportunities.
- Leveraged **Kafka** for data streaming and **PostgreSQL** for data storage to enhance decision-making accuracy and speed for competitive advantage.

Multithreading SAT-solver using backdoors | *Python, pysat, numpy, pandas*

- Utilized PySAT for SAT solving and incorporated MaxSAT functionality.
- Employed Pandas and Numpy for handling and analyzing task data.
- Achieved substantial performance enhancements through parallel execution and innovative algorithm design.

Technical Skills

Languages: Kotlin, Java, C++, Go, Python
Technologies: Spring boot, PostgreSQL, YDB, STQ (Shared Tasks Queue), Kafka, Terraform, Grafana, Clickhouse
Knowledge: Algorithms, Data Structures, Concurrent Computing, Distributed computing

Teaching experience

Competitive programming teacher — Sep 2021 – June 2023
Yugorsky physics and mathematics lyceum — *Khanty-Mansiysk, Russia*