

Ibragim Dzhiblavi

APPLIED MATHEMATICS AND COMPUTER SCIENCE · SOFTWARE ENGINEER

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Education

ITMO University

B.S. IN APPLIED MATHEMATICS AND COMPUTER SCIENCE

Saint-Petersburg, Russia

2018-2022

Experience

Yandex

SOFTWARE ENGINEER | DISTRIBUTED SYSTEMS, HIGH LOAD, LINUX, C++, PYTHON

- Participated in development and support of a core infrastructure pub/sub service (≈20 million RPS).
- Developed an SNS compatible API as a part of public service API. Ensured compatibility with existing SDKs.
- Designed and implemented SMS and WebPush notification channels support with SNS-compatible API.
- Conducted a resource consumption review and performed a horizontal scaling of the main stateful component.
- Drove Boost.Asio upgrade (from 1.74 to 1.86), which required rewriting a lot of low-level ASIO code repository-wise.
- Set up code linting and formatting CI checks to ensure high code quality. Helped my team to set up LSP in their coding environment.

Saint-Petersburg, Russia

Jan 2024 - Now

YADRO

SENIOR SOFTWARE ENGINEER | EMBEDDED SYSTEMS, STORAGE SYSTEMS, LINUX, C++, C, PYTHON

- Implemented and deployed a write-ahead log used for crash and transaction recovery in partial failure mode.

Saint-Petersburg, Russia

May 2023 - Jan 2024

Yandex SDG

SOFTWARE ENGINEER | DISTRIBUTED SYSTEMS, HIGH LOAD LINUX, C++, CUDA, PYTHON, INFERENCE, GRPC

- Designed and implemented a remote inference service. Much like Triton but tailored exactly to our needs and technologies.
- Increased mean GPU utilization by 6 times when compared to a separate GPU per operation and by 4 times when compared to Triton.
- This led to large savings in operational costs and helped developers verify and deploy their ideas faster.
- Implemented a cluster autoscaler paired with service discovery service suitable for multi-tenant and QoS-critical scenarios.
- Ensured observability and debuggability of the service by ensuring that monitorings, logs and alerts are in place and well-documented.

Saint-Petersburg, Russia

Oct 2021 - May 2023

Skills

- C++ (11-23), C, x86-64 ASM, Python, `*sh`; also interested in Rust and Zig
- Docker, Kubernetes, Postgres, IAC (Helm, Terraform), Conan, [C]Make, Bazel, Git, \LaTeX
- Linux, Networking, Concurrency/ASIO, Scalable and maintainable software design
- gdb/lldb, `*trace`, perf, valgrind, sanitizers, tcpdump/wireshark and many others

Publications

ITMO UNIVERSITY

AAAI 37th, June. 2023

- Semenov, A., Chivilikhin, D., Kochemazov, S., & Dzhiblavi, I. (2023). Probabilistic Generalization of Backdoor Trees with Application to SAT. Proceedings of the AAAI Conference on Artificial Intelligence, 37(4), 4095-4103. <https://doi.org/10.1609/aaai.v37i4.25525>