Maksim Fatin
Go senior developer

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Codeforces: FMR (1362)
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SKILLS

Languages
Go   C++   Python

Database & Services
MongoDB   PosgreSQL
S3   Kafka   Prometheus
Jaeger   Github CI
Docker

Testing
Bemchmarks   Unit   E2E
Integration   Google test
Testify   Pytest

Version Control & OS
Git   Ubuntu   MacOS

Education
Bachelor's Degree in Software Engineering from the HSE.
End date: Summer 2023

WORK EXPERIENCE

Yandex Cloud, MDS   **Aug.2022 — Present**
C++, Python   Moscow, Remote
Backend developer   Full-time

- Integrated image processing and user settings storage services with S3, streamlining custom watermark insertion and eliminating the need for releasing a new version for each watermark.
- Enhanced the calculation efficiency of image brightness under the watermark by 30% by reducing the area used for brightness calculation.
- Optimized the operation of changing the image colorspace by 8% through the introduction of caching in an external library.
- Increased the speed of tests for a custom image processing library by 2.5 times by implementing parallelization techniques.
- Successfully diagnosed and fixed test failures in the image processing service while updating an external library that involved over 40,000 lines of code.
- Added the capability of calculating SHA256 for original images to transfer data to Roskomnadzor.

Huawei   **Dec.2021 — Aug.2022**
C++, Python   Nizhniy Novgorod
R&D engineer   Full-time

- Researched existing solutions for identifying critical paths in graphs, and developed an algorithm that enables the identification of a critical path with less than 15% overhead in overtime and 10% in runtime for most MPI applications. This contributed to the identification of optimization areas in a multithreaded programming.

PUBLICATIONS

- Root Causing MPI Workloads Imbalance Issues via Scalable MPI Critical Path Analysis. In book: Supercomputing (pp.501-521). Reference.

PET PROJECTS

GoChat   **Oct.2022 — Present**

- Primary goal: gain proficiency in Go programming language and broaden tech experience via social network development. Collaborated with senior mentors from Ozon, Avito, Tinkoff to ensure project followed community coding and architecture standards. The project is currently under active development, and its results are available on GitHub.