

Aleksandr Kedrik

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Experience

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| Yandex, YandexGPT training infrastructure , Senior Software Engineer | Apr 2024 – present |
| <ul style="list-style-type: none">• Sped up model checkpoint uploading during training 2x to make it possible to make checkpoints more often and lose less progress after hardware failures.• Wrote a tool for benchmarking different methods of checkpoint uploading. | |
| Yandex, SportTechCV infrastructure , Senior Software Engineer | Sept 2023 – Apr 2024 |
| <ul style="list-style-type: none">• Designed and implemented a real-time video processing pipeline for tracking player movements on a football field. Was responsible for real-time processing infrastructure and used CV algorithms developed by another team as a black box. Python, PostgreSQL, a message queue similar to Kafka, FFmpeg.• Wrote a tool for visualizing the progress of each video chunk in real-time. | |
| Yandex, VR and 3D reconstruction infrastructure , Senior Software Engineer | Nov 2022 – Sept 2023 |
| <ul style="list-style-type: none">• Sped up video 3D reconstruction pipeline 4x by finding and fixing infrastructural issues and profiling with Torch profiler.• Researched and tested alternatives to the differentiable 3D-renderer that we were using. Nvdiffrast, Mitsuba 3, Pytorch3d.• Wrote a tool for converting reconstructed animated 3D model back into video for easy viewing. | |
| Yandex, Self-driving cars simulator testing infrastructure , Software Engineer | May 2020 – Nov 2022 |
| <ul style="list-style-type: none">• Designed and implemented a task queue service for launching simulator tests that could scale to thousands of workers. Python, PostgreSQL.• Designed, prototyped, and helped implement an inference server cluster that could handle to >12k RPS and tens of GBit/s of incoming traffic, and could scale the number of its instances based on the current load. Python, C++, Nvidia Triton Inference Server. | |
| Yandex, Yandex.Market infrastructure , Software Engineer | June 2017 – May 2020 |
| <ul style="list-style-type: none">• Worked on a service that parses logs from different backends and turns them into time-series data. Java, MongoDB, ClickHouse, Graphite, a message queue similar to Kafka.• Worked on a CI/CD web service. Java, MongoDB. | |
| Yandex, Yandex.Market , Test Automation Engineer | Aug 2013 – June 2017 |

Education

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| BS Saint-Petersburg National Research University of Information Technologies, Mechanics and Optics (ITMO) , Computer Science | Sept 2011 – June 2015 |
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