# Artyom Fadeyev

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## EXPERIENCE

### Avito
- *Software Engineer, DBaaS* — Oct. 2023 - Present

  `Go` `Kubernetes` `S3` `Python`

  - Led the development of a backup verification platform that **verifies all backups across the entire company**, ensuring the integrity of ∼**10k backups daily** across multiple storage systems.
  - Delivered isolated bucket environments for object storage, providing separate infrastructure for large teams; supports projected **growth of ∼1k users and ∼80k buckets**.
  - Engineered a verification scheduling algorithm considering database sizes, with additional optimizations, delivering **2x faster verifications** and **20–30% lower Ceph load.**
  - Implemented a volume expansion mechanism using the Kubernetes Controller and CSI driver, **reducing expansion time by 90%** and significantly enhancing system reliability.

### Tinkoff
- *Site Reliability Engineer - Intern, DWH Ingest* — March 2023 - June 2023

  `Java` `Kubernetes` `Gitlab CI` `Grafana` `Prometheus` `Kafka`

  - Set up a project CI/CD pipeline using Gitlab CI and deploy it to a Kubernetes cluster using Helm.
  - Refactored Prometheus/Grafana alerts, **reducing false positives by ∼30%** and improving on-call response time.
  - Migrated builds to Artifactory with JAR caching, **speeding up repeat builds by 35–40%**.
  - Co-engineered a solution for **zero-downtime** Kafka topic migration across clusters utilizing Java and Schema Registry.

### Playrix
- *Software Engineer - Intern, Automation Team* — July 2022 - Sept. 2022

  `Python` `AWS` `Vault` `Consul`

  - Developed a solution for tracking employee birthdays and length of service for ∼**4k employees**, with delayed notifications.
  - Led the transition from a monolithic to a microservices architecture, introducing asynchronous code and utilizing AWS Kinesis.
  - Deployed services using Docker and Nomad orchestrator with storing secrets in Vault and configurations in Consul.

## EDUCATION

### ITMO University
- Master's degree, Highload Systems Software — Sept. 2024 - Present

### ITMO University
- Bachelor's degree, Software Engineering — Sept. 2020 - July 2024

## ACHIEVEMENTS

### Yandex Contributions
- June 2023 - Present

  `C++` `Go` `LSP`

  - Co-developed LSP features (declaration lookup, usage search) at SourceCraft, introducing incremental caching for performance.
  - Benchmarked multiple C++ hashtable implementations in aggregation workloads as part of the YDB project, providing performance insights for future decisions.
  - Ranked **top 2 out of 46** students in the Yandex School of Backend Development, while collaborating in an 11-member team to build a platform **allocating 100+ students** to projects based on their preferences.

### Community Contributions
- Sept. 2023 - Present

  `FerretDB` `Mentoring`

  - Enhanced FerretDB by implementing nested index creation in the SQLite driver, benefiting thousands of developers.
  - Mentored **40+ students** in the VK course, completing **500+ code reviews** and boosting project completion rates and code quality.

### School Olympiads
- Feb. 2020

  `Competitive programming` `Mathematics`

  - Prize-winner of the National Mathematics Olympiad (MIPT), awarded a **full tuition** waiver at university.
  - Prize-winner of the regional round of the National School Olympiad in Programming.

## SKILLS

- **Technologies**: Kubernetes, Docker, Linux, PostgreSQL, MongoDB, Redis, Kafka
- **Interests**: HFT, Databases, Distributed Systems, FP, Concurrency, Optimizations
- **Programming Languages**: Go, Rust, Python