

# ALEXEY SHISHKIN

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## EDUCATION

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### HSE University

2022 – 2024

Master's degree

Computational Biology and Bioinformatics

### ITMO University

2018 – 2022

Bachelor's degree

Applied Mathematics and Computer Science

## SKILLS

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### Work experience

Scala, Java, Python, Map Reduce, sbt, git, bash

### Study experience

C++, Haskell, Android, ML

## WORK EXPERIENCE

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### Yandex. Spark over YTsauros

June 2021 – Present

*Software Engineer*

*Scala, Python*

- Integration Apache Spark to Yandex infrastructure and Yandex distributed data storage
  - Reduced query execution time by 15% by implementing filter predicate pushdown
  - Reduced query execution time by 10% by implementing optimization join and aggregation stages in spark plan on sorted dataframe
  - Implemented configurable logging service
  - Developed end-to-end testing Scala and Python clients
  - Prepared open-source release

### ITMO University

Sept. 2021 – May 2022

*Teaching assistant*

*Java, JS, Clojure, Prolog*

- “Introduction to programming”, “Programming paradigms”. Review students' homework assignments and answer their questions about the courses

## PROJECTS

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### ML betting bot

*Python*

- A bot that predicts results of live Dota 2 matches. The application includes a few parts:
  - Concurrent downloading match history from Valve Dota 2 API
  - Auto rebuilding ML model with relevant dataset using Apache Kafka
  - Monitoring games on betting site using computer vision for parsing game state from video broadcast

## ACHIEVEMENTS

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### Google Hash Code 2022 Qualification Round

164th place (1.6%)

### ICPC, quarter-final (2021)

23th place (26%)

### All-Russian Olympiad of School Students, regional stage (2017, 2018)

1st place