Violetta **Kulakova**

SOFTWARE ENGINEER · BIG DATA ENGINEER

Moscow, Russia

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Summary

Currently SWE at Yandex. 3+ years experience specializing in the Date Lake and DWH development. Graduated MIPT with honors in 2020.

Work Experience

Yandex
Moscow, Russia

SOFTWARE ENGINEER
Aug. 2020 - Present

- Develop Data Warehouse for Yandex.Market (Python, Java).

Sberbank
Moscow, Russia

SOFTWARE ENGINEER
Apr. 2019 - Aug. 2020

- Optimized cluster resources and time of our data load system using dynamic determination of the spark jobs order (Java).
- Decreased overall job execution time x2 in the data load service.
- Built the data replication system with Hadoop and Spark jobs: developed utility for finding, computing and storing metrics for spark jobs.
- Built a module for generation of workflow.xml in run-time and creation all necessary environment for launching jobs on Yarn (>8k LOC on Java).
- Built Rest API client for integration with system which runs jobs on Yarn (Java).
- Refactored the code based on GoF patterns and SOLID principles. Active participation at code review.

Sberbank - Technology
Moscow, Russia

JR. SOFTWARE ENGINEER
Sep. 2017 - Apr. 2019

- Participated in creation system for logging and data storage for indexing search used: HDFS as long term storage and Solr as RAM storage, Kafka as entry point and Flume as a link: developed custom flume source; built tool for integration testing our system (Java).
- Developed custom Grafana datasource for Hive that is being used more than 100 times per day by several Sberbank services (JS/TypeScript).

Sberbank - Technology
Moscow, Russia

SOFTWARE ENGINEERING INTERN
Jul. 2017 - Sep. 2017

- Introduced custom Cloudera parcels for new version of Solr (bash).
- Completed Apache Hue UI : the ability to display in Hue more than 1000 records from Solr (Python/Django/JS/CSS).

Education

Moscow Institute of Physics and Technology
Moscow, Russia

M.S. IN APPLIED MATHEMATICS AND COMPUTER SCIENCE (GPA 4.9/5)
Sep. 2018 - Aug. 2020

- Diploma thesis: Optimizing the overall execution time of Spark and MapReduce jobs

Lobachevsky State University,
Niznhy Novgorod, Russia

B.S. APPLIED COMPUTER SCIENCE (GPA 4.3/5)
Sep. 2014 - Aug. 2018

Extracurricular Activity

Moscow Institute of Physics and Technology
Moscow, Russia

JAVA TEACHER ASSISTANT
Sep. 2019 - Present

- Java teacher assistant for third year B.S. students. Graded homework and explained advanced class material to students.

Microsoft Hackaton
Moscow, Russia

WINNER
Jan. 2017

- *Emoji Helper* plugin for Chrome. The idea was to find most suitable emoji describing the mood of written phrase.
- I was responsible for the creating the plugin on js and for the bundle with ML and configuration.

Skills

- Languages: **Java, Python, C/C+, JavaScript**

- Frameworks: **Hadoop/MapReduce, Spark, Spring**

- Databases and brokers: **ClickHouse, Vertica, HBase, Hive, Solr, Cassandra, Kafka**