Mark Andreev, Senior Java Software Engineer

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Development stack:

- **Java**. Spring: MVC, Data, AMQP, Kafka, Security, State machine, Apache Camel.
- PostgreSQL, MongoDB, RabbitMQ, Redis, Keycloak, Prometheus, Docker, Kubernetes, Airflow.
- Spark, Cassandra, Hadoop, Kafka.
- **Cloud**. **AWS**: EC2, S3, RDS, CloudFront, SQS, SNS, Lambda, IAM, Registry; **Azure**: VM, Blob.
- **Python**. Pandas, Scikit-learn, Matplotlib, XGBoost, LightGBM, Catboost, Tornado, Flask, FastAPI.

Languages: Russian - native, English - upper intermediate (B2)

Experience

May 2017 - present

Conundrum.AI, Senior Java Software Engineer (Machine Learning)

- Developed Machine learning lifecycle platform for Industrial Automation (on top of Kubernetes, Dynamic resource allocation. Java for orchestration, Python for serve models)
- Developed Incident Management service with custom workflow (on top of Spring State Machine)
- Developed Data Storage Service for sensors measurements (based on PostgreSQL, Clickhouse and Kafka)
- Developed end to end machine learning application for flight analysis
- Created ad hoc analysis for tabular, geo, textual data for customer needs
- Microservices based architecture

Contribution to Open Source.

- Apache Ignite. Implemented target encoding preprocessor.
- Apache Ignite. Implemented Yandex Catboost inference integration.
- Apache Ignite. Implemented new distances (BrayCurtis, Canberra, JensenShannon etc).
- Apache Camel. Fix Azure Blob Storage and Azure Blob Queue interaction.
- Tornado Swagger. Swagger API Documentation builder for tornado server.

Education

September 2016 - June 2018

Lomonosov Moscow State University, Master of Applied Mathematics and Informatics.
Thesis: “NLP in macroeconomics monitoring”.

September 2012 - June 2016

Moscow Power Engineering Institute (National Research University). Mathematical modeling.
Thesis: “Face recognition”.

Conferences/Public speech

May 2018. Volunteer Data Scientist at EnduringNet (founded by Ser-Huang Poon, prof Manchester University)

July 2017. Big Data approach to measure inflation expectations: the case of the Russian economy (IFABS 2017 Oxford Conference), Goloshchapova, I., & Andreev M.

May 2017. Measuring inflation expectations of the Russian population with the help of machine learning (Voprosy Economiki), Goloshchapova, I., & Andreev M.