Github: @owoshch

FEDOR KITASHOV

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EMPLOYMENT

Software Engineering Intern   **Cisco Systems**   **August 2017 – July 2018,** San Jose, CA

- Paper "Foreign English Accent Adjustment by Learning Phonetic Patterns": implemented the core idea for improving language model using the features obtained from The Speech Accent Archive. Work in progress.
- Contributed code to Kubebench – a framework to run benchmark jobs on Kubeflow – an open-source project to making deployment of machine learning workflows on Kubernetes simple
- Implemented anomaly detector and ELK server part for BabyZeus – a warm-up project for FY18 interns in Cisco Zeus – cloud-based monitoring system.
  Stack: Python, Git, Tensorflow, Keras, Scikit-learn, Scipy, Numpy, Pandas, ElasticSearch, Kibana, Zookeeper

Software Engineering Intern   **Kaspersky Lab**   **February 2017 – August 2017,** Moscow

- Paper "RNN-based Early Cyber-Attack Detection for the Tennessee Eastman Process". ICML 2017, Sydney.
- Compared LSTM-based algorithm for anomaly detection with the baseline solutions – PCA and DPCA.
- Obtained data from the model of Tennessee Eastman plant and further used this data in Kaspersky Lab Data Science Contest and research on data-driven anomaly detection algorithms.
  Stack: Python, Git, Tensorflow, Keras, Scikit-learn, Scipy, Numpy, Pandas

Broadcast Engineer Assistant   **IIHF Ice Hockey World Championship**   **May 2016,** Moscow

- Preparing broadcasting equipment at the ice palace and TV compound. Technical translation.

Drone Pilot, Software Engineer   **Copter Express**   **June 2015 – September 2015,** Moscow

- Created high-quality maps using drones. Disassembled, painted, and reassembled drones for air delivery of SIM-cards. Wrote the software for autonomous drones to make them able to take-off, fly, and land without a manual control. Russian Robotics Championship medalist (2015), winner (2016). **DEMO** ▶

EDUCATION

Moscow, Russia   **Moscow Institute of Physics and Technology**   **Fall 2014 – July 2019**

- Bachelor's Degree in applied mathematics and physics at the Department of Radio Engineering and Cybernetics. Final thesis: TBA

ADDITIONAL PROJECTS

- **CS224n, Natural Language Processing with Deep Learning:** attended onsite in Stanford in the winter of 2018. Final project "English Determiners Correction": implemented a baseline window classification solution and showed bi-LSTM based solution works better for a given task. **GitHub** ⬡**, Demo and blogpost**
- **Yandex Algorithm Contest 2018, General Conversation Challenge:** implemented end-to-end deep learning retrieval-based dialogue system in Tensorflow. Encoded words to vectors for the question and the reply separately, applied bi-lstm and dense layers to get two feature matrices, minimize MSE between the label and Euclidean distance between context and reply**. GitHub** ⬡

HACKATHONS

- **RideMate,** an augmented reality car sharing app. **TechCrunch SF 2017:** Developed a driver's location-sharing part of the app. **ONSTAGE DEMO** ▶
- **FlyMate,** app for airlines passengers' smart placement: Developed smart matching algorithm based on passenger's favorite events in the city of arrival. **DEMO** ▶**, Finnair press release**

COURSERA SPECIALIZATIONS

- **Machine Learning and Data Analysis by Yandex:** Math and Python for data analysis, supervised learning, unsupervised learning, statistics and A/B tests for machine learning, applied data science
- **Data Structure and Algorithms by UC San Diego:** Algorithmic Toolbox, Data Structures, Algorithms on Graphs, Algorithms on Strings