Github: @owoshch
Blog: owoshch.github.io

FEDOR KITASHOV

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EMPLOYMENT

Junior Computer Vision Research Engineer **Mail.Ru Group** **September 2018 – now,** **Moscow**

- Implementing algorithms from recent papers for computer vision applications at Mail&Portal team
  Stack: Python, Git, Pytorch, Tensorflow

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.
- 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

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

- Created high-quality maps using drones. Disassembled, painted and reassembled drones back 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 2021**

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

ADDITIONAL PROJECTS

- **CS224n, Natural Language Processing with Deep Learning:** attended onsite in Stanford in 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 Disrupt SF 2017:** Developed a driver's location sharing part of the app. DEMO
- **FlyMate, app for airlines passengers' smart placement:** Developed smart matching algorithm based on passenger's favorite events in the departure city. 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
- **C++ by Yandex:** C++ for beginners (White belt)