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Michael Solotky

Moscow, Russia
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Education

- MSc student in Applied Mathematics and Computer Science
  Higher School of Economics : Faculty of Computer Science September 2019 – June 2021
  Joint programme with Yandex School of Data Science
- BSc in Applied Mathematics and Computer Science, GPA 4.89 / 5.0
  Lomonosov Moscow State University September 2015 – June 2019
  Faculty of Computational Mathematics and Cybernetics

Continuing with the PhD degree afterwards

Experience

- **Machine Translation department of Yandex** June 2019 – September 2019
  Software Engineering Intern (Machine learning engineer)
  - Conducting experiments on diversity measurement of different inference methods in NMT system.
  - Implemented Diverse Beam Search to improve quality of diverse translations
- **Voice Technology department of Yandex** June 2018 – October 2018
  Software Engineering Intern (Back-end developer)
  - Implemented several methods of probability smoothing in language models for Automatic Speech Recognition
  - Conducted experiments on quality measurement to find the best model among all
  - Implemented an optimal algorithm for constructing n-gram language models in C++ using MapReduce, **which decreased wall time by at least 3 times and slightly increased quality measure comparing to the baseline**

Other experience

- **ML (NumPy, Scipy)**
  Implementation of various ML algorithms from scratch
  github.com/MichaelSolotky/sandbox/tree/master/ML
- Prize in the sentiment analysis contest at the July 2017
  HSE's summer school of automatic text processing

Courses

- **Machine Learning (@ CMC MSU)**
- **Bayesian Methods of Machine Learning (@ CMC MSU)**
- **Bayesian Methods of Deep Learning (@ CMC MSU)**
- **Probabilistic Topic Modeling (@ CMC MSU)**

Diploma Paper

- **Probabilistic Topic Models based on word co-occurrence data**

Olympiads

- First degree diploma in student's Applied Math and Computer Science March 2019
  olympiad of the Higher School of Economics

Technical Skills

- **Used at work**: C++, Python, C, Bash
- **Basic knowledge**: SQL, Assembly language
- **Technologies**: MapReduce, Protobuf, C++ Boost, CMake, Make, SciPy, Scikit-learn, NumPy, Pandas
- **Deep Learning frameworks**: PyTorch, TensorFlow
- **Tools**: Git, Subversion, UNIX/Linux, Travis, AppVeyor, LaTeX