

EDUCATION

- **Master of Science in Applied Mathematics and Informatics**, GPA 3.90 / 4.0 *Sep 2019 – Jun 2021*
Higher School of Economics : Faculty of Computer Science
Joint programme with **Yandex School of Data Science**
- **Bachelor of Science in Applied Mathematics and Computer Science**, GPA 3.89 / 4.0 *Sep 2015 – Jun 2019*
Lomonosov Moscow State University
Faculty of Computational Mathematics and Cybernetics

EXPERIENCE

- **Software Development Engineer at Amazon** *Aug 2021 – Present · 11mo*
Alexa TextToSpeech C C++ Python Bash Perl CI/CD
 - **Reduced latency** of a Deep Learning model for homograph disambiguation by **56%**
 - **Urgently fixing bugs** with wrong pronunciation helping to **deliver projects on time**
 - Extending functionality of an internal library for integration testing in Speech Synthesis **making it simple** to execute various new testing scenarios
- **Research Science Intern at Yandex** PyTorch NumPy Pyplot L^AT_EX *Sep 2020 – Jun 2021 · 9mo*
 - Comparing existing methods for **uncertainty estimation** on large-scale tasks
 - Finding **theoretical foundations** for various methods of uncertainty estimation in **Deep Learning**
 - **Results** are described in the **Master's thesis**
- **Machine Learning Engineer Intern at Yandex** *Jun 2019 – Sep 2019 · 3mo*
Machine Translation department TensorFlow MapReduce SciPy Pyplot
 - Conducted experiments to improve quality and diversity of translations
 - Analyzed baseline approaches and found some basic mistakes that they make
 - **Increased quality and diversity** by internal company's metrics and by commonly used machine translation metrics: **10% of max-BLEU growth** and about **60% of self-BLEU diversity growth**
 - Implemented several models in company's internal machine learning library
- **Software Engineer Intern at Yandex** *Jun 2018 – Oct 2018 · 3mo*
Voice Technology department C++ Python MapReduce Protobuf
 - 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 training n-gram language models in C++ using MapReduce which **reduced training time by 3 times and slightly increased quality**

PROJECTS

- **BigARTM** C++ Boost Protobuf Travis CI AppVeyor *Jan 2017 – Jun 2018*
Open Source library for topic modelling
Developed a tool for parallel calculation of pairwise word statistics ([code sample](#), [documentation](#))

TECHNICAL SKILLS

- **Languages:** C++, Python, C, Bash, Perl
- **Technologies/Libraries:** MapReduce, Protobuf, C++ Boost, Make, NumPy/SciPy, Sklearn, Pandas, CVXPY
- **Deep Learning frameworks:** PyTorch, TensorFlow, Keras
- **Tools:** Git, UNIX/Linux, GDB, Docker, L^AT_EX, Continuous Deployment, Travis CI, AppVeyor