# Mihał Słodki

• Warsaw, Poland

Jun 2018 - Oct 2018 · 3mo

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**EDUCATION** 

Master of Science in Applied Mathematics and Informatics, GPA 3.90 / 4.0
 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
 Lomonosov Moscow State University
 Faculty of Computational Mathematics and Cybernetics

#### EXPERIENCE

• Software Development Engineer at Amazon

Aug 2021 - Aug 2022 · 1yr

Alexa TextToSpeech C C++ Python Bash Perl CI/CD

- Worked on various projects in text normalization for Speech Synthesis in various languages
- Reduced latency of a model for homograph disambiguation by 56%
- Urgently fixing bugs with wrong pronunciation helping to deliver projects on time
- Extended 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)(IPTEX) Sep 2020 Jun 2021 · 9mo
  - o 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
- - 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
- 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)

## SKILLS

• Languages: C++, Python, C, Bash, Perl

Software Engineer Intern at Yandex

- Deep Learning frameworks: PyTorch, TensorFlow, Keras
- Technologies/Libraries: MapReduce, Protobuf, C++ Boost, Make, NumPy/SciPy, Sklearn, Pandas, CVXPY
- Tools: Git, UNIX/Linux, GDB, Docker, LATEX, Deployment Pipelines (CI/CD), Travis CI, AppVeyor