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Michał Słodki

Warsaw, Poland

Skills

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

Experience

- **Software Engineer at Samsung R&D Center** *Feb 2023 – present*
  Visual Display group C++ C GDB Valgrind
  - ToDo: fill in later
  - ToDo: fill in later
- **Software Development Engineer at Amazon** *Aug 2021 – Aug 2022 · 1yr*
  Alexa TextToSpeech C++ C Python 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 LaTeX *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 the 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**
- **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
  - 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 modeling
  Developed a tool for parallel calculation of pairwise word statistics (**code sample**, **documentation**)

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