MICHAEL VASILKOVSKY

Software Engineer

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ABOUT ME

An almost graduate student with more than 3 years of experience in Machine Learning and Software Development, possessing solid Mathematical and Computer Science background. Good team player, who is not afraid of taking the role and obligations of a leader. Seeking for a software engineering position in a team with a warm culture, high values, consisting of people with whom we could learn together.

RELEVANT EXPERIENCE

Neuromation | Machine Learning Team Lead

📅 Apr 2020 - Present   ⚲ San-Francisco, US

- Designed and implemented *a scalable service for real-time face mask detection from multiple RTSP streams*
- Coordinated a team of 7 developers and contributed to many of team's projects including:
  – email signature detection and entities extraction
  – super-resolution (KernelGAN, RealSR)
  – real-time pose estimation from depth cameras ported to an edge device
- Helped sales team to create research proposals for clients like Huawei, PWC, NVIDIA
- Organized remote community activities during the COVID-19 pandemic (reading club, bi-weekly meetings)

Stack: Python, PyTorch, OpenCV, Flask, Streamlit, Docker, Kubernetes, Git, GitHub Actions, Makefile and a lot of Bash.

DBrain | Computer Vision Engineer

📅 Aug 2019 - Oct 2019   ⚲ Moscow, Russia

- Implemented confidence estimation of the document recognition pipeline used to send low-confidence predictions for real-time labeling in crowdsourcing services (handl.ai, Yandex.Toloka)
- Such a mechanism decreased error rate by 5 times in a cost of 20% of additional human verification

Stack: Python, PyTorch, Docker, Docker Compose, Git, Async, Crowdsourcing.

NeuroCore | Computer Vision Engineer

📅 Apr 2019 - Jul 2019   ⚲ Moscow, Russia

- Led a project on detection of potentially dangerous items on X-ray stream of luggage
- Having started without any data our team solved the task with precision 0.95 and almost full recall in 4 months
- The algorithm was finally applied at the Hermitage museum

Stack: Python, PyTorch, Git.

iPavlov | Junior Software Engineer

📅 May 2018 - Feb 2019   ⚲ Moscow, Russia

- Studied text classification methods in case of imbalanced classes (hierarchical classification, data augmentation in NLP)
- Prototyped and maintained *AutoFAQ – automated question answering B2B service*

Stack: Python, Flask, HTML, Bootstrap, PyTorch, Sklearn, Git.

EDUCATION

MSc | Applied Math and CS

Skolkovo Institute of Science and Technology joint with Moscow Institute of Physics and Technology

📅 Sep 2019 - Present   ⚲ Moscow, Russia

GPA: 4.73 out of 5
Academic Advisor: Victor Lempitsky

Yandex School of Data Analysis

Yandex | Data Science Track

📅 Sep 2017 - Jun 2019   ⚲ Moscow, Russia

- Completed plenty of courses on core CS & ML topics starting from Algorithms and Data Structures, Concurrency to *DL, RL, NLP*, and more.

Stack: C++, Python, Go, PyTorch, Tensorflow, Sklearn, Pandas, PySpark, NumPy, Matplotlib, CUDA, OpenMP.

BSc | Applied Math and Physics

Moscow Institute of Physics and Technology

📅 Sep 2015 - Jun 2019   ⚲ Moscow, Russia

EXTRACURRICULAR

Sberbank University | Lecturer

📅 Fall 2019   ⚲ Moscow, Russia

- Developed and delivered a crash course in Data Science
- Mentored a group of 17 product owners and team leaders from several Sberbank IT teams

Netology | Lecturer

📅 Spring 2020   ⚲ Moscow, Russia

- Delivered a series of online lectures and webinars on Computer Vision

International competitions

Junction | Awardee

📅 Nov 2018   ⚲ Helsinki, Finland

- Rapidly developed a prototype providing hints to support service workers by extracting intentions from customer's speech

OTHER

- Member of the varsity volleyball team
- Arguably good at psychology
- Love white water rafting in large teams
- Half-marathon runner