

Sergei Voloboev

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Spoken Languages: English – Advanced (IELTS 7.0), Russian – Native

EDUCATION

- Technical University of Munich** Munich, Germany
Master of Science in Data Engineering and Analytics Oct. 2021 - Sept. 2023 (Present)
- Perm State University** Perm, Russia
Bachelor of Applied Mathematics and Computer Science, GPA 5.0/5.0 Sept. 2017 - Jul. 2021
 - Thesis:** Ontology-driven framework to create intelligent assistants choosing machine learning algorithms

EXPERIENCE

- Laboratory of Code** Perm, Russia
Data Engineer May 2020 - Jul. 2021
 - Python PyTorch Apache Airflow Docker Docker Swarm JupyterHub
 - Led audio denoising project, designed and built Airflow pipelines for distributed data augmentation and training of NNs.
 - Created distributed infrastructure for data science experiments: JupyterHub with dockerized kernels, dockerized Airflow with distributed workers.
- Perm State University** Perm, Russia
Tutor in AI lab Sep. 2020 - Jul. 2021
 - Python Jupyter notebook Numpy Pandas Matplotlib Plotly PyTorch
 - Designed Python and Machine learning crash-courses. Held lectures and seminars for freshmen students.
- Simpl** Perm, Russia
Junior SWE May 2019 - Sep. 2019
 - PySpark Python Alluxio Hadoop Docker C#
 - Migration from legacy data processing solution(Oracle DB + C#) to in-memory distributed computing with Spark, Alluxio and Hadoop.
 - Setup of Apache Spark cluster on office' computers using Docker and Docker Swarm.

STUDY PROJECTS

- DCHelper [Bachelor thesis]** Perm, Russia
Jan. 2020 - Jul. 2021
 - Python Flask FastAPI Docker PyTorch HuggingFace Transformers Ontologies PostgreSQL JQuery
 - Demonstration prototype of a microservice platform with a web interface. The platform provides intelligent assistance for choosing ML algorithms from multiple environments (Python, Weka, R), considering user's preferences and the metadata of the processed dataset. The system's smart search bar and chat bot both use ontologies and sentence BERT.
- Stonxygen** Perm, Russia
Dec. 2020
 - Python gRPC PostgreSQL Redis RabbitMQ Docker Docker swarm Nginx AWS
 - A stocks portfolio application which was the final team project of a distributed systems course and required usage of multiple languages and communication technologies, network reliability, and fault tolerance. I designed the system's scalable architecture, worked on service implementation, and deployed the system on 5 AWS instances.
- Pascal compiler with LLVM Backend** Perm, Russia
Mar. 2021
 - C++ LLVM
 - Project for compiler structure course.

ACHIEVEMENTS

- RuCode Festival, AI track 2021 prize-winner (Moscow Institute of Physics and Technology)** Moscow, Russia
- "I am professional" All-Russian Olympiad, AI track 2020 winner; 2021 prize-winner (Yandex)** Moscow, Russia
- ICPC Northern Eurasia Finals Honorable Mentions 2018-2019, 2019-2020** St. Petersburg, Russia
- Xsolla Hackathon 2019 1st place** Perm, Russia

PROGRAMMING SKILLS

- Languages:** Python, GoLang, C, C++, C#, JavaScript
- Technologies:** Docker, Kubernetes, Git, L^AT_EX, AWS, Google Cloud, Heroku, PostgreSQL, Tableau
- Knowledge:** Algorithms, Data Structures, Distributed Systems, Cloud Computing, Machine Learning, NLP, Software Design