

ALEKSANDR PEREVALOV

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Birthplace: Kirov, Russia ◊ Birthdate: June, 1996

Current location: 06366, Germany ◊ GitHub: <https://github.com/Perevalov>

EDUCATION

Anhalt University of Applied Sciences, Germany

September 2019 - September 2020

Master of Data Science (double degree)

GPA: 1.0 (max. 1.0)

Perm State Technical University, Russia

September 2018 - September 2020

Master in Software Engineering

GPA: 5 (max. 5)

Perm State Technical University, Russia

September 2014 - September 2018

Bachelor in Software Engineering

GPA: 4.73 (max. 5)

CAREER OBJECTIVE

To work in the field of Web Engineering as a research fellow with possibility in future to be a research group leader with a focus on creating innovative solutions for industry and government.

PROJECTS DURING STUDIES

Cerence Complex QA system *Software Developer*

Designing the software from the scratch. Implementing knowledge-based Chatbot that capable to answer non-trivial questions. Deploying the application.

Polyclinica.org – Healthcare Ecosystem *Project Lead/Developer*

Project managing: creating technical requirements, roadmaps, sprint planning. Developing core features of the Virtual Private Medical Assistant (Chatbot). Deploying the application.

TECH SKILLS (MOST USED STAY FIRST)

OS

Linux, Windows

Languages

Python, SPARQL, JavaScript, SQL, C++

DevOps

Docker, Nginx, MLFlow, Gunicorn

Frameworks & Libs

FastAPI, ReactJS, Flask // Pandas, NumPy // Tensorflow, NLTK, Spacy

DBMS

Stardog, PostgreSQL, MongoDB, MySQL, Cassandra, Redis, Neo4j, Oracle

VCS & Tools

Git, Latex (Overleaf)

WORK EXPERIENCE

Foresight LLC, Perm, Russia

March 2018 – August 2020

Software Developer

Developing core functionality of a BPM system in accordance with the BPMN 2.0 notation. The users of the system are large Russian Oil & Gas companies and government ministries. Technologies: C++, SQL, Linux, Azure DevOps, Git.

Anhalt University of Applied Sciences, Koethen, Germany

August 2020 – Present

Research Assistant (until March 2022) and PhD student

Research activities in the field of Question Answering and Web Engineering. Teaching & Supervision in Question Answering and Chatbots course. Developing PhD thesis: “Methods to enhance the accessibility of question-answering systems” in cooperation with Paderborn University.

Developing innovative components and tools for chatbot infrastructure of the ITZBund within a research project.

LANGUAGES

Russian	Native language
English	Full professional proficiency (B2/C1)
German	Intermediate (A2/B1)

SELECTED PUBLICATIONS

1. Aleksandr Gashkov, Aleksandr Perevalov, Maria Eltsova, and Andreas Both. Improving question answering quality through language feature-based sparql query candidate validation. In *The Semantic Web*, pages 217–235, Cham, 2022. Springer International Publishing
2. Aleksandr Perevalov, Andreas Both, Dennis Diefenbach, and Axel-Cyrille Ngonga Ngomo. Can machine translation be a reasonable alternative for multilingual question answering systems over knowledge graphs? In *Proceedings of the Web Conference*, 2022
3. Aleksandr Perevalov, Dennis Diefenbach, Ricardo Usbeck, and Andreas Both. Qald-9-plus: A multilingual dataset for question answering over dbpedia and wikidata translated by native speakers. In *Proceedings of the 16th IEEE International Conference on Semantic Computing (ICSC)*, 2022
4. Aleksandr Perevalov, Xi Yan, Liubov Kovriguina, Longquan Jiang, Andreas Both, and Ricardo Usbeck. Knowledge graph question answering leaderboard: A community resource to prevent a replication crisis, 2022
5. Andreas Both, Paul Heinze, Aleksandr Perevalov, Johannes Richard Bartsch, Rostislav Iudin, Johannes Rudolf Herkner, Tim Schrader, Jonas Wunsch, René Gürth, and Ann Kristin Falkenhain. Quality assurance of a german covid-19 question answering systems using component-based microbenchmarking. In *Proceedings of the Fifteenth ACM International Conference on Web Search and Data Mining, WSDM '22*, page 15611564, New York, NY, USA, 2022. Association for Computing Machinery
6. Aleksandr Perevalov and Andreas Both. Augmentation-based answer type classification of the SMART dataset. In *Proceedings of the SeMantic Answer Type prediction task (SMART) at ISWC 2020, November 5th, 2020*, volume 2774, pages 1–9. CEUR-WS.org, 2020
7. Aleksandr Perevalov and Andreas Both. Improving answer type classification quality through combined question answering datasets. In *International Conference on Knowledge Science, Engineering and Management*, pages 191–204. Springer, 2021
8. Aleksandr Perevalov, Daniil Kurushin, Rustam Faizrakhmanov, and Farida Khabibrakhmanova. Question embeddings based on shannon entropy. *Applied Innovations in IT*, 2019

SUPERVISION

- (2021) Supervisor of the Master Thesis “Comparison of lexical features between human-human and human-chatbot interaction” by A. Vysokov (successfully defended).
- (2021) Mentor at the Google Summer of Code project “Modular DBpedia Chatbot” by J. Desai.
- (2021) Mentor at the Google Summer of Code project “Gamified Knowledge Base Completion Plugin for Wikibase/Wikidata” by D. Khanna.

ACHIEVEMENTS

- (2016) Participation in the University conference with research about Pulse Wave Analysis.
- (2018) 1st prize in the University conference with research about improvement of speech recognition quality of CMU Sphinx system.
- (2018) Course certificate “Introduction to Machine Learning” (Yandex and HSE).
- (2018) TOP10 in Machine Learning competition (Russian Artificial Intelligence forum) with solving production time prediction task based on data from NLTK corporation.
- (2018) Participation in the Machine Learning competition by Gazprom (Prediction of oil production rate for further 6 months).
- (2018) Participation in the AINL international conference poster session with talk about goal-oriented dialogue systems.
- (2019) TOP-9 in international data analysis competition Data Mining Cup 2019.
- (2020) Bronze medal (top 9%) on Kaggle.com “Jigsaw Multilingual Toxic Comment Classification” competition
- (2020) Master’s Thesis: “Improving answer type classification quality through combined question answering datasets”. Supervisor: Prof. Dr. Andreas Both and Assoc. Prof. Daniil Kurushin.
- (2020) Course certificate “Neural Networks and Deep Learning” (deeplearning.ai).
- (2020) 3rd place at SeMantic Answer Type prediction task within ISWC 2020.
- (2021) Participant in the masterclass: “The Art and Craft of Designing and Facilitating Learning Spaces”, Aarhus, Denmark.
- (2021) Course certificate “Web of Data”
- (2021) Course certificate “Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization”

TEACHING

- (WiSe 2020/2021) Practical exercises of the course “Linked Data & Semantic Web” / “Question Answering & Chatbots” in the Master program “Data Science”
- (WiSe 2021/2022) Practical exercises of the course “Linked Data & Semantic Web” / “Question Answering & Chatbots” in the Master program “Data Science”

EXTRAS

- Work & Travel USA 2017 participant;
- I do snowboarding and previously did motorsports (go-karting);
- I love making and editing videos.