KHORUZHII KIRILL

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github.com/k1242

EDUCATION

Bachelor of General and Applied Physics │ *in process* — 2019 – 2021
Moscow Institute of Physics and Technology │ *GPA: 4.65 (9.3/10.0); Top 5%* — Moscow, Russia

WORK EXPERIENCE

Laboratory Assistant — October 2018 – May 2019
Academic University, Renewable Energy Laboratory — Saint Petersburg, Russia
- Spraying coatings
- Measurement of sample characteristics

Software Engineer — August 2020 – until now
Terra Quantum — Moscow, Russia
- search and preprocessing of datasets
- NLP in dialog systems
- State of the art results review

Research assistant — August 2021 – until now
Russian Quantum Center, ultracold quantum research lab — Moscow, Russia
- Laser locking with doppler-free saturated absorption spectroscopy (theory)
- Laser locking with doppler-free saturated absorption spectroscopy (experiment)

PROJECTS AND RESEARCH

Development of antireflective coatings based on SiO_2/Si_3N_4 — Spring 2019
Academic University, Renewable Energy Laboratory — Saint Petersburg, Russia
- Under the leadership of Dmitry Kudryashov, a coating was obtained, with the possibility of rapid spraying.
- The article (doi.org/10.1088/1742-6596/1410/1/012101) was published following the results of the activity.

Voice cloning without text support │ *Python* — Spring 2020
Moscow Institute of Physics and Technology,
- Based on the architecture of autoencoders, a voice cloning algorithm has been developed.

Development of a corporate chat bot — August 2020 – until now
Terra Quantum

COURSEWORK

Mathematics: Calculus, Analysis on manifolds, Harmonic analysis, Linear algebra, Computational Mathematics, Equations of Mathematical Physics
Physics: Mechanics, Dynamical systems and chaos, Statistical Physics I, Field Theory, Quantum Physics
Informatics: Python, C++, Machine Learning, Advanced Deep Learning, Quantum computing

SKILLS

Languages: Russian (Native), English (B2)
Programming: *Python* (NLP, Image Processing, Time Series Processing), ***Wolfram Language***
Tools: TensorFlow, NumPy, Pandas, Matplotlib, scikit-learn, SciPy
Other (advanced): LaTeX , Sublime Text;   **(basic)**: Git, Adobe Illustrator, C++