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SKILLS

Tools and Languages	Python3, C++, C, Golang, Octave, SQL, Bash, Git, LaTeX, MarkDown
Libraries	Pytorch, Numpy, Pandas, OpenCV, Sklearn, Scipy, Tslearn, Matplotlib, Seaborn, Neptune, Optuna

TECHNICAL EXPERIENCE

ML developer intern / VR Team   Jul 2021 — Oct 2021
Yandex   *Russia, Moscow*

- Solving alpha and foreground human matting problem using DL.
- Preparing dataset of humans with their alpha mattings.
- Reading and comparing papers on related topic.
- Improving and training net from FBA Matting paper.

ML Practice / Mobile Authentication   Nov 2020 — June 2021
Samsung R&D Department   *Russia, Moscow*

- Using ML and DL for user authentication on mobile phones and predicting unblocking by time series of user's micromovements.
- 75% accuracy in predicting unblocking, 70% accuracy in user's authentication.
- Reading papers on related topic.

Intern / Software Architecture Improvement   Aug 2020 — Oct 2020
Huawei   *Russia, Moscow*

- Developing data handler, writing system with non-trivial logic in C.
- Testing via the same Octave implementation and unit tests (Catch2 library).
- Simplifying logic using mediator and command patterns.

EDUCATION

Bachelor in Computer Science, *Higher School of Economics*   Sep 2019 — Jun 2023
Applied Mathematics and Information Science

Yandex School of Data Analysis (YSDA)   Sep 2020 — May 2022
Relevant courses: Machine learning, Deep Vision and Graphics, NLP, Generative Models, Python, Statistics, Linear algebra, Probability theory, Algorithms and Data Structures

PROJECTS

Automatic Detection of Means of Transportation on 3d Cargo Models   Dec 2021 — Present
- Overview papers for RGB-D and 3D approaches for 3D cloud segmentation.
- Scanning and manual labeling 3D cargo clouds, camera calibration.
- Reading and comparing papers on related topic.
- In progress . . .

Telegram poll bot   Jul 2020 — Sep 2020
- Telegram bot on python3 using telebot library.
- Allows to create and pass polls containing images, videos, files and voice messages.
- Imports poll's results to Google Sheets using Google Sheets API.

Automatic computer activity monitoring   Aug 2020 — Sep 2020
- Windows application allowing automatic employee performance monitoring and analysing.
- Implementation on C++ using grpc and protobuf for data transfer.
- Access to information by WinAPI.

COMPETITIONS

- Top 350 (top 0.8%) in Google Code Jam, Round C   June 2020
- Top 50 in Google Kick Start, Round C   May 2020
- Top 8% in Google Hash Code   Feb 2020
- Award in All-Russian Olympiad in programming - 33rd place, over 20000 participants countrywide   Apr 2018, 2019
- Award in All-Russian Olympiad in maths - 8th place, over 20000 participants countrywide   Apr 2018, 2019