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Artem Makoyan

Languages: Python3, C++, C, Go
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EDUCATION

Bachelor in Computer Science, GPA 8.68/10, Higher School of Economics, Moscow, Russia Sep 2019 — Jun 2024

Applied Mathematics and Information Science

- Algebra
- Probability Theory and Statistics
- Linear Algebra and Geometry
- Logic
- Calculus
- Algorithms and Data Structures
- Discrete Mathematics
- Operating Systems
- Matrix Computations
- NLP
- Optimization in ML

Master's Equivalent, Yandex School of Data Analysis, Data Science, Russia

Sep 2020 — May 2022

- Machine Learning
- Computer Vision
- Processing
- Bayes Methods in ML
- Deep Learning
- 3D Computer Vision
- Generative Models
- Python
- Deep Vision and Graphics
- Natural Language
- Reinforcement Learning
- C++

Bachelor, Applied Computer Science (Eng), GPA 84.69/100, Neapolis University of Pafos, Paphos, Cyprus

Jan 2023 — Jun 2024

Applied Computer Science

- Innovation and Entrepreneurship
- Interest based communications
- Advanced Databases Concepts
- Software Project Management
- Introduction to Business
- Advanced Computer Networks
- Technical Entrepreneurship
- Principles of Cybersecurity
- Distributed Systems

TECHNICAL EXPERIENCE

Middle ML Engineer/ Geo services

Jun 2023 — Present

Yandex

Python 3, PyTorch, Hydra

→Automatic maps markup. Road and road elements segmentation from aerophotos.

→News parsing and analysis for map's changes deection.

Middle ML Engineer/ Computer Vision Platform

Jul 2022 — Jun 2023

Sber Devices

Python 3, C++, PyTorch, Hydra, DVC, OpenCV, ONNX, torch_pruning

→Background removal for video conferencing. Improved metrics (0.98 dice) and visual quality, 1.5x speed up after pruning.

→Pay card localization. Trained 700KB model for card segmentation. Developed C++ inference pipeline.

ML Developer intern / VR Team with V. Lempitsky

Jul 2021 — Oct 2021

Yandex

Python 3, PyTorch, Tensorboard

→VR scene quality improving by predicting human alpha mask. Researched papers and improved [FBA Matting](#).

ML Research Intern / Mobile Authentication

Nov 2020 — June 2021

Samsung R&D Department

Python 3, PyTorch, Bash, Numpy, Pandas, Sklearn, Tslearn

→Worked on a ML pipeline for mobile phone authentication by user's motion patterns with $82.2\% \pm 9\%$ accuracy - [paper](#).

Software Engineer Intern / Software performance engineering team

Aug 2020 — Oct 2020

Huawei

C, Octave, Catch2

→Worked on a framework for faster developing open-source 5G wireless library by developing a testing platform on C and Octave

PROJECTS

Telegram LLM QA bot

Jun 2023 — Aug 2023

→Developed tg bot to answer on questions from the chat context

Python 3, LangChain, HuggingFace, aiogram

- Researched different LLM models, developed different types of LangChain pipeline (stuff, rerank, map reduce, refine) with them.

Automatic Detection of Means of Transportation on 3d Cargo Models

Dec 2021 — June 2022

→Developed model for cloud segmentation with 0.95 IoU for cargo

Python 3, Pytorch, PyTorch3D

- Calibrated cameras for cargo scanning, prepared data, implemented ESANet model

Automatic computer activity monitoring

Aug 2020 — Sep 2020

→Developed Windows application allowing automatic employee performance monitoring and analysing

C++, GRPC, ProtoBuf

- Implemented on C++ using grpc and protobuf for data transfer, access to information by WinAPI

COMPETITIONS

- **Top 8%** in Google Hash Code. **Top 50** in Google Kick Start. **Top 350 (top 0.8%)** in Google Code Jam

Feb, May, June 2020

- Awards in All-Russian Olympiad: 33rd place in **Informatics** and 8th place in **Maths** over 20000 participants

Apr 2018, 2019

SKILLS

Libraries

Pytorch, Hydra, DVC, WandB, OpenCV, Sklearn, Numpy, Pandas, Scipy, ONNX, Matplotlib, Optuna

Tools

SQL, Linux, Bash, Git, \LaTeX , Markdown