Dmitry Shabat

Machine Learning Engineer

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https://github.com/Xallt
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I have a website!
xallt.github.io

Machine Learning Engineer with experience in processing big 2D/3D data and passion for state-of-the-art 3D reconstruction / text-to-3D algorithms

I love diving into tough Computer Vision-related problems, and am looking for a team where I can contribute my skills, and learn!

Experience

ML Engineer, Clostra

04/2022 - 03/2024

- Reproduced variations of the NeRF architecture for 3D reconstruction of static/dynamic scenes
 & full-body / head avatars, constantly keeping up with SOTA research
- Implemented various approaches using GANs / Diffusion models for 3D generation / generative fill in 3D reconstruction
- Integrated segmentation / detection / depth estimation models to improve 3D priors
- Rapid MVPs development for various LLM / Object Detection / Re-ID / Image Generation tasks

ML Engineer, 3D Predict

07/2020 - 04/2022

- Sped up teeth segmentation ~3x by optimizing the model architecture
- Improved teeth segmentation accuracy, leading to 2x manual revision speed by clinical experts
- Developed internal MLOps system based on ClearML for training & deploying models
- Implemented & deployed a model used for estimating the transformation of a tooth in a CT scan

Software Developer Intern, Socinform

12/2019 - 04/2020

Engineered and implemented fast fuzzy-search over a large database of brand names in .NET

Game Developer Intern, FunExpected

06/2018 - 08/2018

Implemented a game in **Godot-Engine** that teaches kids basic concepts of algorithms. One of educational games in Funexpected Math (**The Webby Awards 2020 People's Voice Winner for Best Visual Design)**

Education

Bachelor of Science: Applied Mathematics and Informatics

09/2019 - 06/2024

Higher School of Economics - Moscow, Russia *Graduation date - 06/2024*

Projects

Procedural noise texture generator (Three.js, React) — <u>link</u> Mediapipe Hand Tracking in C++ / Python — <u>link</u> OpenGL Ray Tracer (C++) - <u>link</u>

Skills

- Languages Python, C++, CUDA, Scala, Javasript
- ML & CV pytorch(3d), scipy, opency, ClearML, Slurm
- 3D App Development OpenGL, Dear ImGui, Unity, Godot Engine
- Software Engineering git, bash, cmake, docker, bazel, github Cl

Languages

Russian – Native Speaker English – Fluent

Interests

- Cooking crepe master Q
- VR Gaming Beat Saber × mostly!
- Sport Ping Pong / Voleyball / Rock Climbing / Skiing
- Productivity obsessing over Obsidian as a Second Brain
- Lecturing occasional lectures on my favorite tech topics. <u>Link to recordings</u>