

Rustam Uzdenov

Junior Computer Vision Researcher @ AIRI & MSU

Deep Learning, Computer Vision, Generative AI for CAD, 3D Geometry, Reverse Engineering, LLMs

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in SUPERrustam

Experience

AIRI & Moscow State University (MSU)

Junior Computer Vision Researcher

Sep 2025 – Present
Moscow, Russia

- Research in **Generative AI for CAD** and **3D Computer Vision** (surface reconstruction, correspondence estimation, point cloud/mesh registration).

- Reverse engineering: parametric reconstruction of CAD models from meshes or scans.

- Joint AIRI-MSU-Sber research project; close collaboration with researchers and engineers.

ISP RAS (Russian Academy of Sciences)

Junior Computer Vision Researcher

Sep 2024 – Sep 2025
Moscow, Russia

- R&D in Computer Vision with a focus on **Video Copy Detection**.

- Published and presented research “Shazam Algorithm for Partial Video Copy Detection” at IVMEM 2025.

Fast Food Memes (tg@ffmemesbot)

Machine Learning Engineer

Jan 2024 – Aug 2024
Remote

- Developed **infinite personalized meme feed** for an **open-source Telegram bot** (ffmemes/ff-backend).
- Processed **500k+** memes with OCR in **10** languages, reaching **500/1600/2500** DAU/WAU/MAU with a **30k+** daily meme flow.
- Co-authored 2nd most popular open-source OCR model on mystic.ai (uriel/easyocr-r).
- Built deduplication and spam-detection system that flagged **14k+** spam entries.

Bauman Racing Team ("Formula Student" Team)

MLOps Engineer

Nov 2022 – Oct 2023
Moscow, Russia

- Created CLI tool to manage docker containers/volumes for driverless car system
- Developed unit testing system for C++ code from scratch
- Built CI/CD pipelines from scratch in JetBrains Space & locally

Education

Bauman Moscow State Technical University

Bachelor's in Mathematics and Computer Science

Sep 2022 – Aug 2026
Moscow, Russia

- *GPA: 4.35/5 — Grade: 4*
- *Academic Projects:* Developed **official final exam generator** for Department of Theoretical Mechanics (FS3, still in use)
- *Leadership:* **Team leader** one of the largest team in **BMSTU Math Olympiad Club**
- *Extracurriculars:*
 - PEBW (Proficient English in Business World program)
 - Math Olympiad Club

Skills

Programming Languages: Python, SQL, C++, Bash

ML/DL Stack: PyTorch, Transformers, OpenCV, Open3D, PEFT, vLLM, NumPy, Pandas, Matplotlib, Scikit-learn

Technologies: LoRA, Qwen, GraphRAG, RAG, Docker, Airflow/Prefect

Collaborative Skills: Git & GitHub, Leadership, Research Collaboration, Code Review

Languages: English (Professional Working), Russian (Native)

Projects

Optimizing GraphRAG for Enhanced RAG Pipelines <i>Team project at Yandex StudCamp on NLP & NSU</i>	Jul 2025 Remote
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- Optimized GraphRAG construction using **LoRA fine-tuning on Qwen3-4B** for enhanced NER and relation extraction in Russian.
- Integrated the solution into the open-source RAGU framework.

Certifications

Yandex StudCamp on CV & Autonomous Transport with **Faculty of CS HSE** — Yandex, Oct 2025 (Credential)

Yandex StudCamp on NLP with Novosibirsk State University (NSU) — Yandex, Jul 2025 (Credential)

Supervised Machine Learning: Regression and Classification — **Stanford/DeepLearning.ai**

Honors & Awards

RUDN Math Olymp – 3rd degree diploma (individual competition)	<i>December 2024</i>
RUDN Math Olymp – 3rd degree diploma (individual competition)	<i>December 2023</i>
RUDN Math Olymp – 3rd degree diploma (team competition)	<i>December 2023</i>
Formula Student Russia (Class EV & DV)	<i>August 2023</i>
BMSTU Math Olympiad – 2nd place among 2nd-year students	<i>November 2023</i>