

Maksim Gusev



📅 16/05/2005 (18 y.o.)

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🌐 <https://github.com/AlanTheKnight>

Skills

- Programming (Python, C++, TypeScript, JavaScript, Golang)
- Frontend and backend development
- Algorithms and data structures
- Math: linear algebra, planimetry, stereometry
- Experience in working with AI, computer vision & deep learning models
- Problem solving
- Teamwork, time management and advanced planning

Languages

Russian — native speaker

English — C1

Education

- ITMO University, Applied System Software (Program Engineering) (from 2023)
- Academic Gymnasium N56, St.Petersburg (2017 - 2023)
- School N207, St. Petersburg (2012 - 2017)
- “School of IT solutions” graduate (2019 - 2020)

Tests Scores

- **SAT** — 1470/1600
- **CAE** — 197/210
- **EGE** (Russian Unified State Exam) — 274/310 (95 — informatics, 91 — Russian language, 76 — advanced maths, 10 — individual achievements)

Achievements

- “Digital Breakthrough” hackathon 2022 in Ekaterinburg — 1st place, winner
- “Digital Breakthrough” hackathon 2023 in Saint Petersburg — 5th place, finalist
- National Technological Olympiad 2021/2022 (*Big Data & Machine Learning track*) — finalist
- National Technological Olympiad 2022/2023 (*Artificial Intelligence, Autonomous Transport Systems tracks*) — finalist
- High School of Economics Case Championship (*regional tour in St. Petersburg*) — prize-winner
- Russian School Olympiad 2021/2022 & 2022/2023 (*English language, regional tour*) — prize-winner
- Russian School Olympiad 2020/2021 & 2022/2023 (*Informatics, regional tour*) — participant
- Granite of Science Olympiad 2022/2023 — prize-winner
- Olympiad of Siberian Federal University 2022/2023 — prize-winner
- “Talent NTO” (*Python programming & AI tracks*) — winner

Projects

MathUp

Link: <https://apps.apple.com/ru/app/mathup-учите-формулы/id1589678155?platform=iphone>

MathUp is an Android & iOS mobile application that helps to memorize mathematical formulas in an interactive way. The app is made with React Native, TypeScript, and Firebase. As of 20.04.2023, it has 5650 registered users. Further development plans include design changes, additional theory sections, and increasing MAU.

Diary56

Link: <https://github.com/AlanTheKnight/diary56x>

Diary56 is an open-source web application for schools that provides grade management, timetable & homework functions. The app is made with Django Rest Framework & Vue 3.

Teeth.Check

Link: <https://github.com/fm-projects/teeth-check>

Solution for the “Digital Breakthrough” hackathon case. “Teeth.Check” is a web application that provides caries detection on teeth photos using the YOLOv4 model. Photographs are uploaded by users and then handled by the backend made with Django Rest Framework. The service also provides authorization via “Telegram” messenger.

NTO AI Video Classification

Link: <https://github.com/fm-projects/NTO-AI-video-classification>

Solution for the Nation Technological Olympiad (AI profile) second tour’s problem using zero-shot prediction by OpenAI’s CLIP model (ViT-B/16). The solution script is built using Docker.

Hobbies

- Programming
- Traveling
- Cycling
- Reading
- Exercising & gym
- Playing chess
- Photography