Никулин Дмитрий Александрович

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PROFILE SUMMARY

Results-driven developer with a track record of turning complex ideas into working prototypes — from AI-powered Telegram bots and data analysis tools to quantum cryptography and smart city systems. Collaborated with engineers from «Iceberg» Central Design Bureau to deliver cross-disciplinary prototypes under tight deadlines.

EDUCATION

Russian University of Transport 2025 — 2029
BSc, Information systems & technologies (Specialty code 09.03.02)

SKILLS

Main technologies: Python: AI/ML (whisper, YOLO, torch), Telegram-bots (telethon, aiogram), Data Analysis (numpy, pandas, scipy), PyQt5
Dev Tools & Practices: Git • Docker (basic) • FastAPI (elementary) • CI/CD Concepts • Pytest
Architectural: Modular Monolith, Event-Driven Bots, Pipeline Architecture, OOP Principles, SOLID, DDD, Decoupled AI Integrations, Multi-Component Systems
Languages: English (B1), Russian (Native)
Domains: Voice Assistants • Digital Twins • Content Automation • Vulnerability Scanning

PROFESSIONAL EXPERIENCE

Project Developer — Educational & Competition Programs, Custom Projects

Light Spectrum Optimizer (MEPhI Hackathon)
Solved inverse spectral problem using scipy and numpy to find optimal LED combinations matching AM1.5G solar spectrum — ***won 1st place at Nuclear IT Hack***.

Smart Traffic Light System (Ongoing)
Designed AI-powered traffic optimization system using YOLOv11 for real-time vehicle detection and SUMO/TraCI for traffic simulation — built to reduce urban congestion for “Novator Moscow” competition.
Collaborating with 2 peers: I lead the AI module while coordinating with simulation and hardware teams, regularly present progress to mentors.

Quantum RFID Access Control (All-Russian Olympiad in InfoSec)
Built hybrid system combining Q# quantum RNG with Arduino-based RFID reader and Python backend — demonstrated secure, non-deterministic authentication for physical access control.

G.O.S.H.A. (Personal project)
Built a local, offline voice assistant using Whisper, g4f, and pyttsx3 to execute OS commands via natural speech — enabled hands-free control of applications, files, and settings without cloud dependencies.

Telegram Bots (Personal projects)
- Bots for automated content rewriting
- Bot that hosts the job distribution channel in my city
- Voice-to-text summarization bot
- etc.

HONORS & AWARDS

Winner, Nuclear IT Hack (MEPhI Hackathon)
Certificate of Recognition — Moscow Region Government
Finalist, National Stage — All-Russian Scientific & Tech Competition «Big Challenges» (Sirius, 2024)
Winner, Regional Stage — «Big Challenges» (Vzlet Edu. Center, 2023)
Prizewinner, Regional Stage — All-Russian Olympiad (VSOSH) — Information Security
Certificate of Excellence — Intensive Program “School of Young Manager” (Vzlet Edu. Center, 2023)