

Aleksandr Naumtsev

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EDUCATION

• **Saint-Petersburg State University | Mathematics and Computer Sciences department** *St. Petersburg, Russia*
Mathematics, Algorithms and Data Analysis | Bachelor's degree | GPA 4.47 out of 5 Sep 2020 - Jul 2024

• **Yandex | School of Data Analysis**

Data Science

Sep 2023 - Jun 2025

Relevant courses:

- **Math:** Probability Theory, Mathematical Statistics, Machine Learning, Theoretical Computer Science, Linear Algebra, Discrete Mathematics, Differential equations, Bayesian inference
- **Programming:** Algorithms and Data Structures, 🗄 Databases, Operating Systems, Computer networks, C/C++, OOP, Python, Linux, Operating systems
- **Other:** RecSys, Deep Learning, NLP, RL, Computer Vision, Heuristic search, Convex analysis and optimization

WORK EXPERIENCE

• **Yandex** | Generative advertising departments | ML engineer *July - ... 2024*
– Automatic compilation of the most relevant ads

• **Diginetika** | Search and recommendations in ecom | Data scientist *February - July 2024*
– Generating synonyms to improve search
– Creation and adoption of new recommendation strategies

• **Yandex** | Ecom's product analytics group | Intern analyst *June - September 2023*
– Generating and testing product hypotheses, improving e-commerce sourcing
– Unloading, drawing of graphs by ecom slices. Explanation of critical changes in metrics.
– Collection and markup of ecom queries for surplus validation
– Implementation of control system for eliminated/large tables in the internal database

• **ODDSCORP.com** | Strategy Analyst *June - Aug 2022*
– Strategy development and analysis

PROJECTS

• 🗣 **Course feedback ranking system | Python, Aiohttp, MySQL, OpenAI** *Sep 2023*
Collecting feedback on university courses and ranking by preference

- Implementation of asynchronous bot
- Ranking of courses by student preference
- Generation of tags describing the course
- Microservice architecture: bot, database, ranking system

• 🎵 **Glinka music | Python, torch, midi2audio** *Aug 2023 -*
Transformer-based music generation and stylization

- Work with Music Transformer 🎹
- Enhanced music segmentation and harmony extraction algorithms
- Research on adding additional features

• 🗣 **D* lite vs LSS-LRTA* | Python, Pygame, Matplotlib** *Nov 2022*
Finding the shortest path in a dynamic environment

- Implementation and analysis of search algorithms from articles
- Visualization of their work
- Testing and comparing results for different metrics

• 🗣 **AgarIoRU | Python, Socket, PyGame** *Aug 2022*
Popular multiplayer survival simulation game

- Clients-server architecture
- Efficient data transfer over the network

• 🗣 **Protocol Detection Bot | OpenCV, pytesseract, Telebot, GoogleApiClient, OAuth2client** *May 2022*
Parsing and decoding the results of the Olympiad from paper

- Parsing a table into individual cells
- Number and word recognition

– Telegram bot by picture sends results on google sheets

• 📷 3D CV | Python, CV2, Numpy

Jan 2022

Finding your Location by Video

- Recognizing "corners"
- Making tracks of special points on different photos
- Calculating camera position changes

• 📊 Data Advanced Structures | C, C++

March 2022

Huffman, Linq, Smart pointers, BMP

ACHIEVEMENTS AND CERTIFICATES

- Winner of the student olympiad "I am a Professional" in mathematics June 2024
- Prize-winner of the student olympiad "I am a Professional" on artificial intelligence June 2024
- Prize-winner of the student olympiad "Higher Sample" on data analysis and AI June 2024
- Second-place in Data Analysis Contest by St. Petersburg State University and Yandex March 2023
- Master Candidate on codeforces 🏆
- Tinkoff Fellow for the Analytics track Sept 2023 - June 2024
- First-Degree diploma in programming at the Lomonosov Olympiad Sept 2020
- Second-Degree diploma in mathematics at the Moscow School Olympiad Feb 2020
- Name scholarship of the Government of St. Petersburg in the field of information technologies from the Committee for Science and Higher Education. 🏆 2020 - 2021

SKILLS SUMMARY

Languages: Python, C/C++, SQL, [Basic: HTML, CSS, JS]

Python dev: socket, pytest, asyncio, Flask, aiogram, aiohttp, pygame, bs4, pyTelegramBot, requests

Python: jupyter, torch, numpy, pandas, matplotlib, seaborn, scipy, sklearn, cvxpy, catboost, openai

Databases: YQL, PostgreSQL, MongoDB

Developer Tools: Git, Docker/Docker-compose

Other: Datalens, Nirvana, MapReduce, bash, tmux, valgrind, gdb

SOCIAL IMPACT

- Teaching mathematics:
Work as a camp instructor, checking olympiad papers and conducting intensives