

SKILLS

Programming

Python C++ Haskell SQL
pandas NumPy algorithms

Analytics & Statistics

A/B testing Bayesian inference
model evaluation statistics
time-series data visualisation

Machine Learning

deep learning PyTorch recsys
classical ML CV graph ML
generative models NLP

Tools

Git Linux Docker CI/CD

LANGUAGES

Russian	native
English	C2
French	B2
Hebrew	B1
German	B1

AWARDS

2017 – 2019

Senior Scholarship, Trinity College Cambridge

Awarded yearly for academic achievement

2015

Int'l Chemistry Olympiad (IChO) — Silver Medal

Team Britain, top-4 selected nationally

2016

iGEM — Gold Medal & Best Plant Synthetic Biology

Cambridge-JIC team; built a toolbox for chloroplast genetic engineering

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📍 Baden-Baden, Germany

🌐 github.com/almayor

🇪🇺 EU citizenship

Alexander Mayorov

ML RESEARCHER · DATA SCIENTIST



ML researcher and engineer spanning production recsys, applied research, and autonomous systems. Two Q1 publications; competitive retrieval pipelines; language-grounded collaborative perception under V2X constraints.

EDUCATION

Karlsruhe Institute of Technology (KIT)

10/25 – present

M.Sc. in Physics

- Majoring in Condensed Matter Theory

Yandex School of Data Analysis (YSDA)

09/22 – 06/25

Highly selective graduate program (~5% acceptance)

- Machine Learning (theory & practice), Deep Learning, NLP, Generative Models, Graph ML, Recommendation Systems, A/B Testing & Statistics, Information Theory

University of Cambridge

10/15 – 10/20 (incl. gap year)

B.A. First-Class Hons in Natural Sciences

- Broad curriculum in mathematics, biochemistry, and physics; eventual specialization in theoretical chemistry

WORK & RESEARCH

FZI Research Center for Information Technology

04/26 – present

ML Researcher (HiWi)

Autonomous driving research

- Researching language-grounded collaborative perception for autonomous vehicles under strict V2X bandwidth constraints — studying when to share information as BEV features, object facts, or symbolic language; targeted at ECCV publication

Educational Center "Sirius"

06/25 – 04/26

Haskell Developer

Back-end infrastructure for national science olympiads

- Optimised the code verification system — replaced container-per-submission with a custom checker (~200× faster) and built back-end features platform-wide

Yandex.Music

06/22 – 11/22

Data Scientist

Real-time music recommendation at scale

- Engineered features from large-scale streaming logs and implicit feedback

Benjamin Group @ University of Oxford

06/19 – 09/19

Research Intern

Quantum algorithms for molecular simulation

- Publication in *Chemical Science* (Q1, 125 citations) [↗](#)

Dal Peraro Group @ EPFL

06/18 – 12/18

Research Intern

Statistical analysis of protein evolution

- Publication in *Molecular Biology & Evolution* (Q1) [↗](#)

SELECTED PROJECTS

Yandex Lavka — Recommendation System

spring 2025

YSDA course project · 1st/70 participants on Kaggle [↗](#)

- Retrieval + ranking pipeline on real grocery data: NPMI/SVD, CatBoost, embeddings