

# ARTEM PARFENOV

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## EDUCATION

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**Computer science faculty, Higher School of Economics.** [link](#)

2021 - 2025

Studying Applied Mathematics and Information Science.

Favourite courses: C++, Python, Discrete math, Algorithms.

**Gymnasium №1534 Moscow** [link](#)

2015 - 2021

Graduated from class with advanced IT, math and physics.

GPA: 3.4/4

## SKILLS

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**Languages** C++, Python, SQL, HTML+CSS

**Tools** Git, Linux, numpy/pandas/matplotlib L<sup>A</sup>T<sub>E</sub>X, markdown, CCNA Routing and Switching/Security CCNA I

## PROJECTS

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**Image Processor** C++, Cmake

[GitHub](#)

- Implemented argument parser.
- Binary input/output implemented via templates.
- Internal image class
- Class hierarchy with virtual inheritance.

**Face Recognition** Python, OpenCV, HOG, Haar Cascades, Catboost, Sklearn, numpy/pandas/matplotlib

[GitHub](#)

- Face recognition model, achieved 75% accuracy in the kaggle contest (8/72 leaderboard).
- Used Haar Cascades to find faces at photo.
- Got attributes via Histogram of Oriented Gradients
- After that, applying PCA to reduce the dimensions of the features and after prediction took results from Catboost classifier for images with low probability.

**Linear algebra labs** Python, google colab, numpy/pandas/matplotlib

[GitHub](#)

- Implemented linear regression.
- Done some task with MNIST.
- Decrease size of image using singular value decomposition.
- Proved some theorems.

## EXPERIENCE

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**Software Engineer Intern**

May 2020 - Jan 2022

SBER Eapteka

*Moscow, Russia*

- Made reports based on declarative queries (SQL).
- Participated in system analysis during the implementation of Datarean ESB.
- Created a diagram of data flows between management systems(ERP, WMS, web site) in the company.

## EXTRA-CURRICULAR ACTIVITIES

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Winner of "Profsreda"hackaton.

May 2020

- Together with the school team, a website was implemented that consolidates information about the school Olympiads, the benefits that they bring when entering certain other universities, passing scores, etc.
- My role: Engaged in writing a backend in php, user authorization, queries to the DBMS, to display information in the user profile and news feed.