Baderko Makar

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About Me

I am a 15 year old passionate Software Engineer. I would like to gain some work experience while collaborating with curious people on some interesting projects.

Skills

Technical Skills Python3, C++, Scikit-learn, Gradient Boosting, Tensorflow, Pytorch, Pandas, Matplotlib, Git, Docker, PostgreSQL, Arduino, Fusion 360 and LaTeX

Languages Russian - Mother Tongue, English - C1 (Certified), German - B1, Italian - A0

Interests Microelectronics, Engineering, Videography, Teaching, Reading

Work Experience

Biometriclabs
Backend Developer   (July 2023 - August 2023)
- Creating a high-performance codebase to connect the mathematical models written in C with the existing UI and the database of reports from sensors.

Biometriclabs
Embedded Developer   (June 2021 - August 2021)
- Building prototypes of innovative products with the Raspberry Pi, collecting human heart rate data and converting it into the required digital format.

Personal projects and competitions

Personal Projects
Automated Trash Sorting Conveyer
- While working on this projects I used such technologies as OpenCV, Tensorflow, Arduino and Fusion 360 as a CAD software
- This project was a combination of Deep Learning, Microelectronics and 3D Modelling.

Different Kaggle Competitions   (June 2019 - Present)
- Developed different strategies, both using external libraries and self-created algorithms.
- Was able to achieve such results in commercial competitions:
  SIIM-ISIC Melanoma-Classification - Placed 836/3308
  Cornell Birdcall Identification - Placed 784/1390
  M5 Forecasting - Placed 701/5558
  ALASKA2 Image Steganalysis - Placed 629/1095
  Rock, Paper, Scissors - Placed 622/1662
  Halite by Two Sigma - Placed 338/1139
  Hash Code 2021 - Traffic Signalling - Placed 83/179

Other Competitions   (2022 - Present)
- AIJ Junior Contest Winner (1st place), Computer Vision case (2023-2024)
- Winner of the National Data Analysis Olympiad DANO, held by the Higher School of Economics (2022-2023)

Education

Online Courses
- The Complete SQL Bootcamp
- Data Structures + Algorithms
- Reinforcement Learning in Python
- Deep Learning: Advanced Computer Vision (GANs, SSD, +More)
- Tensorflow 2 and Keras Deep Learning
- Building Recommender Systems
- Natural Language Processing with Python
- Machine Learning Bootcamp

Offline Studies
- MIPT Summer Olympic School (Sport programming)
  Finished with A- B+ grades, placed 2nd in a team-based algorithms competition.
  During this intensive course I learned Dynamic Programming, Graph Traversals, different sorting and searching algorithms.
- Sirius.AI 2023 Computer Vision Intensive Course, placed 1st in a team-based project competition.