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

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.

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.

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)

- Winner of the National Data Analysis Olimpiad DANO (Run by the Higher School of Economics)

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.