



MARIIA MAKAROVA

Machine Learning Engineer

Communicative and motivated MSc-1 student studying Advanced Computational Science in Skoltech. Possess a huge desire to grow as a Machine Learning Engineer.

 **Email:** foxiemak5@gmail.com

 **Telegram:** @mashmallow_5

 **GitHub:** github.com/makmary

Area of expertise

- **Backend:** NestJS
- **Frontend:** Javascript, ReactJS, Redux, Material UI, CSS, HTML5, ES6, webpack, SASS, etc.
- **Tools:** GIT, BitBucket, npm, yarn, Jira, Figma, linux
- **Languages:** Javascript, Python, R
- **Skills:** PostgreSQL, Clickhouse, jupyter, seaborn, pandas, numpy, scipy, matplotlib, bootstrapped
- **Russian:** Native
- **English:** Advanced / C1

Achievements

- **Galaxy Coding Hack 2021** Winner
- Participated in **2021 Conference of Russian Young Researchers in Electrical and Electronic Engineering**
- **Digital Breakthrough Hackathon 2020** Winner
- Finished extra course **"Product Analytics"** provided by Mail.Ru
- Participated in the **RAIFHACK hackathon, 2020**
- Participated in SCRUM game at the **online festival 2020 Raiffeisen DGTL Fest**
- A finalist of online **VTB hackathon** in 2020
- published one research paper **"Methods of Detecting and Neutralizing Potential DHCP Rogue Servers"** in IEEEExplore

Projects

- **Pump It Up** - coordinated the implementation of a project to predict the functionality of water pumps in Tanzania by using ML models. **Tools:** pandas, numpy, sklearn, logreg, KNN, random forest, gradient boosting, GridSearchCV.
- **Measuring distance between drone and AprilTag** - used CV algorithms to determine the distance between flying drone and any item with AprilTag. **Tools:** ROS, cv2.
- **Game of Life** - developed a simulation of living cells on the board. **Tools:** python, OOP, argparse, schedule.

Work Experience



Frontend developer

Novilab Mobile | November 2019 - February 2020

Developed a full stack web application, a multilingual platform for E-Commerce, using React and Redux, Semantic UI, webpack.



Frontend developer

National Research Nuclear University MEPhI (Moscow Engineering Physics Institute) | June 2020 - January 2021

Developed a **CTF Dashboard**, a website for MEPhI in order to monitor and collect scientific works of undergraduate and graduate students, and a CTF Dashboard for MEPhI students using React, Redux, Material UI, webpack.

Academic History



Skolkovo Institute of Science and Technology (Skoltech)

Institute of Mathematics and Computer Science

Master of Science in Advanced Computational Science, 2021-2023

GPA: 4.0/5.0

Relevant Courses: Intro to Data Science, Scientific Computing, Path Planning in AI, Intro to Computer Vision, Numerical Linear Algebra, Machine Learning, Tensor Decompositions and Tensor Networks in AI.



National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)

Institute of Computer Systems and Technologies

Bachelor of Informatics and Computer Engineering, 2017-2021

Thesis: Methods of Detecting and Neutralizing Potential Rogue DHCP Servers

GPA: 4.4/5.0