

Alexey Palukhin

DATA SCIENTIST/DATA ANALYST

Moscow

+7 923 331 03 74 | palukhinalalexey@gmail.com | thesaintbelial

Work Experience

Inginirium

Moscow

PROGRAMMING TEACHER (PYTHON/C++)

March 2020 –

- Conducting regular programming classes in Python/C++ for middle and higher school students at the technopark, as well as in private and public schools.
- Implementation of student project activities: help in creating applications and games in Python using the pygame / tkinter graphics libraries.
- Timely maintenance of student analytics, presentation of characteristics.
- Conducting master classes for teachers of computer science in Moscow schools as a part of their advanced training courses.
- Participation in the "Engineers of the Future" contest and in the commission to evaluate the work of the participants on the "Programming" track.

Courses

Data Analysis and Machine Learning

- Completed the courses "Mathematics and Python for Data Analysis", "Labeled data training" by Yandex and MIPT in which basic data analysis knowledges, algorithms of linear regression and classification, decision trees algorithm and the fundamentals of optimization methods were studied.
- Completed the course "Fundamentals of Machine Learning" from the Higher School of Economics, in which logistic regression algorithms, support vector machines and multiclass classification methods were studied. The text classification project was performed.

Other

- Completed a month-long intensive course in C at programming School 21 (Sber). The result: results in top 2, enrollment.
- Studying at School 21 for 10 months. 3 web projects and 6 projects in C were implemented, including:
 - ft services project. The purpose was to create a k8s cluster with a large number of services for raising and maintaining the server's performance (Nginx, FTPS, Wordpress, MySQL, PhpMyAdmin, Grafana, InfluxDB, SSH).
 - cub3d project. A game engine in C was developed with the implementation of the ray-casting algorithm (similar to Wolfenstein 3D).
 - minishell project in C, in which own command shell for Unix-systems with capabilities close to bash was performed.
 - ft printf project, which repeats the logic of the printf function from the standard C library.
 - libft project of 36 standard C functions for working with memory, strings and lists.
 - libasm Assembler project of 8 standard functions for working with memory and strings.

Education

Bauman Moscow State Technical University

Moscow

BACHELOR - COMPUTER SYSTEMS OF MANUFACTURE AUTOMATION

2017 – 2021

- Thesis "Development of data processing modules for a parallel computing subsystem in the Rao X simulation modeling system" - a modular upgrade in Java of an existing plug-in for the Eclipse IDE, which implements the possibility of developing simulation models in the Rao DS-language, conducting simulations of the designed models and monitoring simulation results (collecting statistics on the experiments performed). Development was carried out using graphic libraries SWT, JFace, as well as frameworks Xtext, Xtend.

Skills

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ML: sklearn

Python: pandas, scipy, seaborn, matplotlib, numpy

SQL(PostgreSQL, Clickhouse), Tableau, Grafana: fundamentals

Java: junior

C/C++, git, bash: fundamentals

English: upper-intermediate (B2)

About me

I love mathematics and its applied applications for solving complex problems in other sciences. I am constantly moving on and studying material on the topics of Machine Learning, Data Analysis and Data Engineering. I see myself working on interesting team projects that benefit the business and increase its efficiency.