


MAXIM ZUBKOV

zubkov.md@phystech.edu  +7(967)-120-61-12

Moscow, Russia

EDUCATION

Moscow Institute of Physics and Technology
Bachelor
Department of Control and Applied Mathematics
Chair of Data Analysis, Yandex

2017 - 2021
Overall GPA: 4.73/5.00

TECHNICAL KNOWLEDGE

Programming Languages Frameworks

Python, C/C++, SQL, JavaScript, Kotlin
Numpy, Matplotlib, Pandas, SkLearn, CVXPY
NLTK, Gensim, FastText, PyTorch, pytorch-lightning, wandb
XGBoost, CatBoost, Dash, ReactJS
Django

Software & Tools

LaTeX, Git, Github Actions, AWS, Bash, Linux, MS Office, Jupiter,
Zeppelin, Postgres, MongoDB, GoogleColab, Anaconda

Soft Skills




Advanced English, Presentation, Leadership, Teamwork, Time Management

RESEARCH EXPERIENCE

JetBrains ML4SE laboratory

July 2020 - Present

Research on detecting clones in source code

- Implemented Code2Seq architecture on PyTorch 
- Contributed in AST paths mining tool Astminer 
- Designed and developed lib for augmentations of C/C++ code 
- Conducted experiments and validated ideas

Stability of GANs

April 2020 - August 2020

- Studied the influence of different techniques on the stability of GAN training ([paper](#) [RUS](#))
- Participated at [summer school SMILES at Skoltech](#) and presented our work ([poster](#))

Image inpainting

October 2019 - December 2019

- Paper review on the topic of image inpainting and GAN
- Implement U-Net and train it on Arcitecture dataset

WORK EXPIRIENCE

Tinkoff

July 2019 - August 2019

- Developing new recommendation system using NLP methods
- Cluster users by their material condition

PROJECTS AND COURSE WORKS


Pyhton in Yandex Data School

February 2020 - June 2020


- Python byte-code interpretator
- Map-Reduce framework

C++ algorithms

March 2019 - May 2019

- Clique problem 

Optimizing of NPC problem of finding Clique using Meet In The Middle and Branches and Bounds algorithms

- Fast Fourier Transform 

Implementation of Polynomial class, multiplication, exponentiation using Fast Fourier Transform

- Graph Planarity 

Check the graph planarity using Gamma Algorithm

Analyzer of users' behavior in web

February 2019 - May 2019

- Implemented Markov Chains algorithm to estimate how current users' behaviour differs from ordinary ones
- Developed Google Chrome extension and launched a server that provide multi-user mode for our service

COMPETITIONS AND ACHIEVEMENTS

VK Hack

September 2019

- At the hackathon, it was proposed to implement mobile app for the Pushkin Museum with a voice assistant, the ability to listen to audio guides and navigate through museum. I performed as a leader of the team

CET-MIPT Hack

September 2019

- At the hackathon, the task was to find oil for a given set of logs (time series), and then chose the best strategy for its extraction. I performed as a leader of the team

RELEVANT COURSES

Theoretical Courses

Calculus, Complex Theory and Lebesgue Measure
 Linear Algebra and Abstract Algebra
 Ordinary and Partial Differential Equations
 Functional analysis
 General and Theoretical Physics
 Probability ([Coursera](#)) and Statistics
 Convex Analysis and Optimization Theory

Programming and CS Courses

Introduction to Machine Learning ([Coursera](#))
 Operating Systems
 Object-Oriented Programming in C++
 Huawei Computer Vision Course
 Algorithms, Data Structures and Computation Models
 Python Language ([Coursera](#))
 DeepLearning Course dlcourse.ai
[DL in NLP](#), ABBYY
 Full-stack Web Development with React ([Coursera](#))
 CS224W (currently passing)