

MAXIM ZUBKOV

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Moscow, Russia

EDUCATION

Moscow Institute of Physics and Technology

2017 - 2021

Bachelor

Overall GPA: 8.0/10

Department of Control and Applied Mathematics

TECHNICAL KNOWLEDGE

Programming Languages

C/C++ (4/5), Python (4/5), SQL (4/5)

JavaScript, CSS, HTML (3/5)

Frameworks

Numpy (4/5), Matplotlib (3/5), Pandas (5/5), SkLearn (4/5)

NLTK(2/5), Gensim(3/5), FastText(2/5), SpaCy(2/5), PyTorch (3/5)

XGBoost (3/5), Requests (3/5), BeautifulSoup (2/5), Asyncio (3/5)

Multiprocessing(2/5), STL (3/5), PyQt (1/5), Dash(3/5), ReactJS (3/5)

Software & Tools

LaTeX, Git, Bash, Linux, MS Office, Jupiter, Postgres

Soft Skills

Advanced English, Presentation

PROJECTS

Shell-like extensions

September 2018 - October 2018

- ls, cp command implementation
- Piping the result of one process to another
- Posix and sys5 semaphores

Users behavior analyzer

February 2019 - Now

- The main idea is to analyze the users behaviour according to his transfers between web-pages
- To calculate the probability of current user to transfer from one web-page to another we used Markov Chains with Hidden States
- Also we developed Google Chrome extension and launched a server that provide multi-user mode

Clique Problem

March 2019

- Meet In The Middle algorithm
- Branches and Bounds algorithm

Fast Fourier Transform

April 2019

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

Tic-Tac-Toe

April 2019

- Implementation of Tic-Tac-Toe AI using Monte-Carlo Tree Search

Graph Planarity

May 2019 - Now

- Check the graph planarity using Gamma Algorithm
- Planned for the future to add the graph drawing

DL in NLP

August 2019 - Now

- ABBYY NLP Course

RELEVANT COURSES

Mathematical Courses

Calculus
 Linear Algebra
 Differential Equations
 Combinatorics
 Graph Theory
 Abstract Algebra
 Lebesgue Measure
 Probability Theory ([Coursera](#))
 Physics
 Analytical Mechanics
 Advanced Abstract Algebra and Number Theory

Programming and CS Courses

Introduction to Machine Learning ([Coursera](#))
 Operating Systems
 Object-Oriented Programming in C++
 Relational Database Architecture
 Formal Languages
 Algorithms and Data Structures
 Advanced Algorithms and Computation Models
 Automata Theory
 Python Language ([Coursera](#))
 Asynchronous Programming
 DeepLearning Course [dlcourse.ai](#)
[DL in NLP, ABBYY](#)

WORK EXPERIENCE

Tinkoff

July 2019 - August 2019

- I worked in the department of recommender systems, in my work I used both classical machine learning methods (boosting trees, clustering algorithms) and deep learning methods (Word2Vec, LSTM)

VK Hack

September 2019

- At the hackathon, it was proposed to implement the VK Mini App for the Pushkin Museum with a voice assistant, the ability to listen to audio guides and navigate through museum. Unfortunately our project did not take prizes

CET-MIPT Hack

September 2019

- At the hackathon, the task of finding oil for a given set of logs (time series) was solved.