

## Relevant skills

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**Skills:** Python: numpy, scipy, panda, scikit-learn, keras, tensorflow, bs5, selenium, django, ggplot, plotly;

R: finance, gis; SQL, PostgreSQL; Tableau, PowerBI; LaTeX, Markdown; REST API, Matlab, C++, Git

**Machine Learning:** Decision Tree, Linear Regression, Logistic Regression, Time Series, Optimization, Cluster Analysis, Neural Networks in Jupyter / Google Colab / AWS SageMaker.

**Computational Finance:** Sharpe Ratio, Sales Forecasting, ARR / NPV, Binomial Tree, Monte Carlo, Black-Scholes.

**Excel / Google Spreadsheet:** VBA, macros, solver, functions, Google App Script.

## Education

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- 2019 – 2020 **King's College London:** Accelerator Programme  
Research in the impact of modern technologies and hard skills in an IT industry.
- 2016 – 2019 **University of Nottingham:** BSc (Hons) Financial Mathematics  
Obtained the International Scholarship of Excellence (2016-2018)
- 2015 – 2016 **Moscow State University:** Mathematics  
Accepted without entry examinations by achieving high places in maths and coding competitions
- 2014 – 2015 **Cambridge Education Group:** Financial Economics – A\*AA (Maths, Economics and Business)

## Work experience

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- June 2019 – Present  
**London** **PitchMe.co: Data Scientist**  
Future of Work Startup (Seed Round) which focuses on an innovative way of extracting and showcasing hard and soft skills of individuals and matching with companies, industries and job positions.
- Developed a score-based algorithm to match and rank candidates based on job requirements.
  - Researched and implemented skills sourcing (hard and soft skills) and data mining (scraping) algorithms for more than 5 external accounts (GitHub, Behance, etc.).
  - Developed an algorithm to send personalised emails, show targeted ads and to suggest the most relevant online courses based on candidates' hard skills, psychological types etc.
  - Analysed metrics and visualised reports from Google Analytics, Twilio, WordPress, AdWords, Facebook insights using Python and Tableau.
  - Developed a logic of CRM with further integration of AWS S3 and Google Drive.
  - Participated in stand-ups, strategical planning and product discussions. Mentored Juniors.
- Aug 2018 – Dec 2018  
**Moscow** **Lapmol: Data Analyst**  
(4-months remote project)
- Improved logistics processes using optimization and clusterization algorithms.
  - Implemented Automatic Plate recognition by Hikvision.
  - Sales analysis of a central region of the Republic of Moldova using Python and Tableau.
  - Finding an optimal location for a branded grocery by analysing open data using Google Maps API.
- May 2018 – Aug 2018  
**Nottingham** **University of Nottingham: Research**
- Developed a simulation algorithm for Q/D/n queues.
  - Solving ODEs using Laplace and Fourier transforms for Markov processes.
- June 2017– Aug 2017  
**Moscow** **Bank "UniStream": Summer Intern**
- Developed a motivational model for partner banks using Excel (solver, optimization models).
  - Implementing Fraud Detection techniques (Benford's Law, Round Numbers, Gap Detection).
  - Research of a new product (debit cards) using investment valuation techniques.
  - Research of ATM market in Moscow using PowerBI map visualization.
- June 2017 – Present  
**London** **The London School of Mathematics and Programming: Teacher of Maths and Programming**
- Responsible for teaching groups of up to 12 students.
  - Created an Olympiad Maths curriculum alongside PhD students from Imperial College London.
  - Organised the London-based Maths Olympiad "Otkrytk".

## Projects

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- 2019 – Present [thelearningmachine.ai](#)
- Contributor to statistical and coding articles (Python and R).
  - Currently helping with building a new website using NodeJS.
- 2019 – Present [Modern Portfolio Theory in Cryptomarket](#)
- Developed a trading strategy on R based on Sharpe Ratio and Technical analysis for crypto market as part of my university project.
  - Currently moving it to Python environment and adding more fundamental and technical indicators alongside time series analysis to improve the accuracy of an algorithm.
- 2018 – 2019 **Crypto Mining**
- Built and managed mining rigs on Ethereum blockchain.
  - Setting up Horizen masternodes on Linux VPS.

## Online Courses and Achievements:

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[Machine Learning](#) by Stanford University on Coursera

[Deep Learning](#) by deeplearning.ai on Coursera

**Hackerrank: Python** – Gold Badge

**Hackerrank: Problem Solving** – Gold Badge

## Extra-curricular activities

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**Peer Assisted Study Support Leader:** supporting first-year students in their transition to university life and in developing important mathematical skills, valuable communication, leadership and interpersonal skills (2018).

**Social Secretary** of the Russian Speaking Society at the University of Nottingham (2017).

Participant in the University of Nottingham Chess Society and in the University of Nottingham Basketball team.

**Volunteer** in maths competitions “Matematiheskyy Prazdnik” (2015, 2016), “Tournament of the Towns” (2017-2019).

## Languages

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**Russian** Native

**English** Fluent

**German** Intermediate