

ROBERT LOSHKAREV

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Work Experience

Centre for Strategic Planning of FMBA of Russia – Analyst

april 2021 - present

- Design and development of computing-heavy services
- Research in biotechnology and AI

Can't tell much, since most of the work done is classified here.

Atlas Biomed Group – Knomics – Data scientist –> Tech lead

february 2017 - present

- Tech lead in a team developing the system for genetics and microbiome data analysis
- Developing algorithms for microbiome data analysis
- At first I worked at Knomics, but Atlas Biomed acquired Knomics and I started working at Atlas.
- For a certain period of time, I worked at two jobs, in the morning at Knomics, in the evening at Marketing Logic, working part-time here now

Marketing Logic – Data scientist –> Senior data scientist

december 2015 - january 2018

- Was engaged in the processing and analysis of geodata, and also led the team of analysts and ETL developers. By duties, was the technical director of the company. Examples of completed projects: revenue forecast based on geodata, location recommendations on opening retail offices, determining the locations of target customer groups.

Other projects / interests

- Modeling the neurons and environment of the nematode *C. elegans*
- Chatbots, their neural network architectures, and implementation and development of various systems around them.

Education

november 2018 - present

- **Saratov State University, PhD in “Mathematical Modeling, Numerical Methods and Software Complexes”**. Dissertation on the topic “Mathematical modeling of intercellular interactions in a neurovascular unit”. I work on modeling various cells in the brain (neurons, astrocytes, etc.)

september 2015 - july 2018

- Moscow City University, master's degree in Information Systems and Technologies

september 2011 - july 2011

- Saratov State University, bachelor's degree in Organizational Management

Major skills

- Neuroscience and computational neuroscience.
- Deep learning - worked mainly with text analysis, text generation, and chatbots.
- General machine learning - linear regression, decision trees, LightGBM, XGBoost, CatBoost for working with heterogeneous data.
- Understanding the full cycle of the analytical product, architecture design of the analytical product, have experience of being a team lead in such projects.
- Software engineering, experience designing databases, cloud infrastructure, design and development of computing-heavy services.
- Python, SQL, Pytorch, Octave, Linux, bash, Git, Docker, RabbitMQ, Java (basic), C++ (basic).

Other skills and abilities

- Independence, adaptability, fast learner, being productive in a teamwork setting, leadership skills, intellectual endurance (I study and work seven days a week for 85-95 hours a week average)