OLGA BELITSKAYA

GitHub: https://github.com/OlgaBelitskaya. Phone: +79057171945. Email: safuolga@gmail.com. Address: Moscow, Russia.

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Metrum Research Group

2 Tunxis Rd., Suite 112
Tariffville, CT 06081
United States

Dear Research Team:

I am excited to apply for the position of a full-time R programming specialist to support your biomedical modeling and simulation services. Experience with this type of projects was purchased by me as a part of training in the specialty «Data Analyst», Udacity.com. In the borders of this program, we are constantly trained in the extraction, cleaning, structuring and data visualization. Passing the Data Analyst Nanodegree program almost to the end, I can say that the entire process of preparation of experts in this program is aimed at the successful implementation of the mentioned duties for this position.

In my career, I often had to drastically change the sphere of solving problems in building objects and their projects (for example, compliance issues of state standards, outdoor advertising signs, traffic management on the certain territory, the questions of registration of real estate, and so on). Events unfolded such a way that I always had to explore new areas of knowledge, combining it with the current duties. I think this kind of experience helps to work with new for me biomedical data. Visualization, manipulation of data and statistical analyses in the Data Analyst Nanodegree program were performed by me only in the fields of economics (finding strong correlations between market indicators), social studies (detect fraud at the company), or geo-regional studies (purification and extraction of useful information from open data).

I worked twice in the process of preparing analysis-ready data files from source data, both times it started from zero to the working database in the end. In the Center of Standardization, I created the database alone. In the TNK-BP, we had the great team in the Development department and created the project data together (each member worked on his own areas and one operator of the database coordinated our activity).

Producing dynamic and static data visualizations to help deliver the results of quantitative analysis to customers in innovative ways seems for me one of the most important parts of the duties. And I am happy that I have some variants of the geostatistical project with creating interactive data visualizations using the high-level programming packages (D3, Highcharts, etc.)

Good programming skills I can demonstrate in the three of the mentioned languages (R, Python, JavaScript). I have programming experience with HTML, Shiny, Markdown, LaTeX as well. I plan to expand the programming knowledge to the widest possible range and to use at least 5-7 languages in the nearest perspective. I hope I will have acquired the skills in the development of software packages for the implementation of specific programs with further work projects or Udacity training. I also plan to continue programming courses after the completed Data Analyst Nanodegree program and to increase the sphere of my skills as much as it will be possible.

My education is in conformity with the description of the position requirements. It must be noted that I started a career in the field of science in mathematical game theory, but soon left it for the better prospects and positions in business.

I am really grateful for the opportunity to work for Metrum Research Group. Companies like yours are at the forefront of science and participation in them is an honor for any applicant. Evaluation and visualization of the results of research should be carried out for medical purposes as soon as possible to allow early application of innovation for rescue and recovery of patients. Thank you very much for your consideration.

Regards,

Olga Belitskaya