**Cover Letter**

Yuriy Sereda, Ph.D.

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Dear Mr. Clint Naegel,

I am writing to express my interest in the remote Data Scientist position that your recruiting company has advertised. I have a combination of education, self-learning, work, and personal project experience that makes me a suitable candidate for this position. I participated in numerous data analysis, software development, and modeling projects. My experience is diverse and includes many years of work in the departments of physics, chemistry, and mathematics at several universities as a data analyst, scientific programmer, and researcher. I have a passion to Data Science and gained a good understanding of the principles of statistics, data science and machine learning, as well as software development practice due to my study at the Data Science Career Track program at Springboard and through collaborative work on scientific programming projects, mentoring, teaching and tutoring students (especially in business, sociology, psychology and computer science), as well as continuous self-education. I would bring:

* + 14+ years of professional experience in analytical roles involving data science, statistical modeling, mathematics, theoretical physics, and biophysics.
  + High proficiency in Python, R, SQL, machine learning, C, Assembly, Bash scripting, and mathematical software (Maple, Mathematica, MATLAB, MathCAD).
  + M.S. in engineering physics, Ph.D. in theoretical physics & mathematics, Ph.D. in chemistry, certifications in Data Science from DataCamp, Udemy, Coursera.
  + Training in Data Science with specialization in Deep Learning at Springboard, and in Business Analytics with specialization in NLP at Megaputer Intelligence.
  + Several sales-oriented machine learning classification and inferential statistics projects.
  + Training and hands-on experience in Time Series Analysis, classification and regression methods, including logistic regression, decision tree, random forest, XGBoost, recurrent neural networks, experience in hyperparameter optimization using Bayes search.
  + Developed a new approach to fast time series forecasting using symbolic computing.
  + Hundreds of industrial optimization problems solved using linear and nonlinear programming (Excel, Lingo, CPLEX, gurobipy, and other open-source tools) involving allocation of resources, optimizing profit, production and training scheduling.
  + 16+ years of in-person and online tutoring, mentoring, and teaching experience in statistics, algebra, calculus, programming languages (C, Python, R), applied and business mathematics, differential equations, numerical methods, physics, and general chemistry.

Bringing my vast experience gained during successful completion of many projects, I am looking to solve challenging projects for your clients, extend my data science, analytical and programming skills, and eventually land a stable position. Thank you for taking the time to consider my application. I look forward to learning more about this opportunity.

Yours sincerely,

Dr. Yuriy Sereda

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