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Alex Fedotov

Data Scientist / Data Engineer

About Me Experienced and motivated self-starter. I'm seeking a stable full-time or part-time position in Chicago, IL, utilizing my skills in research and data engineering/data programming. It can be an established business or a start-up environment which I'm used to as well.
Green Card holder, full work authorization in the US.

Education

1973 - 1979, Moscow State University (Moscow, USSR)
Physicist (Physical Electronics, Plasma Physics)

1989, Lebedev Physical Institute, Academy of Sciences (Moscow, USSR)
Ph.D. in Physics and Mathematics

Experience

January 2017 - present, Data Scientist, Independent Contractor
Detailed achievements:

- Learned the Python design patterns and completed the Beazley advanced Python course while working on a lengthy Python project for a client.
- Mastered the ggplot graphics in R/RStudio together with the knitr package for finalized reports and presentation quality documents.
- Completed one long and two short data science / data engineering projects for the clients.

Nov. 2003 - Dec. 2016, President, On-line Card Technologies, Inc. (Chicago, IL)
Managed the design and development team of ON-LINE CARD ™-standalone digital ID / payments processing / billing web-service.

Feb. 2002 - Jan. 2004, Owner, CEO, ROBOXchange.com
Fully automated e-currency exchange service. Led the design and development, built a business around it and managed the continuous support and development of the service, including the financial management and partnerships with all e-money services that existed at the time.

Sep. 1999 - Oct. 2003, Co-owner, CEO, Guarantee Agency, JSC (Moscow, Russia)
Led the product design team and product implementation team of the first direct-access online exchange INDX.ru (still operates). The exchange traded derivative direct-lending instruments for e-money (webmoney.ru); devised the contracts that were traded on the exchange and added several important features to the e-money system itself. Tools: SQL.

March. 1995 - Aug. 1999, President, CEO, A.V. Fedotov and Co. (Moscow, Russia)
Licensed commodities futures brokerage firm, accredited with MICEX (Moscow). Devised and implemented a futures trading system based on composite indicators and Bayesian neural network. Tools: METASTOCK, Neurostock, Excel script, Visual Basic.

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January. 1992 - March. 1995, CEO, LYNX, Inc. (Moscow, Russia)
Research and development company that engineered and patented an Erbium medical laser for blood sampling (scarificator).

April. 1979 - Jan. 1992, Junior Research Associate - Research Associate, Lebedev Physical Institute of the Academy of Science (Moscow, Russia)
Physical experiments and experiment automation on high-power relativistic electron beam accelerator. Skills: PDP 8 and 11, Apple][, IBM PC, DEC VAX, CAMAC (Computer-Aided Measurement And Control), Tools: Assembler, Focal/Fortran, Pascal/Modula, C/C++.

Communication Skills

Between 1992 and 2011

I founded, funded and managed 5 companies. This requires many communication skills.

Software Development Skills

Programming

- Python
- Vim/PyCharm
- bash
- git/GitHub
- R
- RStudio

Computer Software

- SQL
- NoSQL(MongoDB)

Interests

Professional

Data collection, Data transformation, Mathematics of Machine Learning, Measurement Theory, Probability Theories, Inductive, Empirical and Causal Inference, advanced programming techniques.

Personal

Mathematics - reading and writing, Nature - visiting parks and forest preserves, playing Jimi Hendrix on my guitar.