

PDT PARTNERS: DATA DEVELOPER

Position: Data Developer

Position Type: Full-Time

Location: Manhattan, NY; London, UK

Education: Bachelor's degree in Computer Science, CIS, or Engineering

Opportunity:

PDT Partners – a proprietary quantitative research and algorithmic trading group – builds and trades strategies based on mathematical models developed through rigorous research. Data is critical to this research process and our business as a whole.

We're looking for talented, high-performance, hands-on data engineers to join a team of programmers focused on all aspects of the firm's data requirements.

PDT is a fun and collaborative community of tech geeks, science fiction fans, Lord of the Rings aficionados, musicians, martial artists, extreme-sports enthusiasts and foodies who enjoy a non-hierarchical, professional environment. Our culture encourages and expects significant contribution from all members. High-performing individuals are rewarded with opportunities for career advancement as well as technical and professional growth.

Role & Responsibilities:

- Help build the next generation large data platform for the firm
- Design and build systems to produce clean input flows for research and trading purposes
- Develop efficient software to accurately download, validate, and transform data sets
- Engineer systems to manage onboarding of new data sources
- Partner with business teams on data requirements and build according solutions to support them
- Work closely with quantitative researchers and traders to analyze and understand sources of data
- Be part of global team of technology, operations and systems engineering specialists in PDT
- Be a member of the centralized data team and a key player in the construction and maintenance of the firm's data sets
- Learn and develop new technologies

Requirements:

- Interest in the data space, including ingestion, management, quality and integrity problems
- Exceptional debugging, troubleshooting and problem solving skills
- Strong programming experience in compiled and scripted languages: Python, Java, C++, Perl, etc.
- Familiarity with relational and / or non-relational database technologies: MongoDB, Microsoft SQL Server, HBase, PostgreSQL, etc.
- Knowledge and experience with Unix and Windows
- Ability to effectively implement maintainable solutions
- Desire and ability to learn financial and technical concepts
- Desire to work on large scale, complex, business critical projects

Personal Attributes:

- Curiosity, creativity, self-motivation
- Can learn quickly and explain complex matters clearly
- Detail oriented, precise, problem solver
- Calm, poised and comfortable in a dynamic and fast-moving environment
- Ability to work collaboratively as a contributing member of a strong team
- Strong organizational and priority management skills
- Maintains accountability and has a strong sense of ownership
- Welcomes feedback and is able to apply it constructively
- Communicates clearly and succinctly, verbally and in writing

Other Desirable Experience:

- Familiarity with financial data, including:
 - Securities and reference
 - Corporate actions
 - Earnings
 - International market structure across asset classes
 - Vendor feed batch processing
- Numerical processing and statistics, including:
 - Effective sampling
 - Bias avoidance
 - Hypothesis testing
- Experience with large data sets
- Prior data technology role in the financial services industry

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How to Apply:

PDT sponsors work authorization visas.

About PDT:

PDT was founded by Peter Muller in 1993 as a proprietary quantitative trading group within Morgan Stanley. Based on the belief that rigorous scientific investigation can unveil inefficiencies in financial markets, PDT was created to develop and systematically trade quantitative strategies.

PDT became an independent investment manager in 2013, with offices in New York, London, and Hong Kong.

PDT Partners is a global investment manager. We develop and deploy quantitative, model-driven strategies to trade liquid assets globally. Composed of a tight-knit community of researchers, technologists, and business professionals, we strive to build one of the best quantitative trading firms in the world.

Our investment success is driven by rigorous research, state-of-the-art technology, and keen focus on risk management and trade execution. We accomplish our goals by valuing depth and expertise, encouraging intellectual curiosity, and seeking constant innovation. We are uniquely positioned. We have a long and successful history as a trading group, have significant assets under management, and are nimble and growing.

Members of PDT focus on quantitative research, systems design, trade execution and business operations. It takes a team of people from all areas to create a profitable system. Since most trading is automated, PDT is able to focus on new development and longer-term projects. As a result, PDT offices resemble an academic setting much more than a Wall Street trading floor.

The group encourages new ideas and an entrepreneurial intensity from everyone. Each member of PDT enjoys an exciting work environment and a sense of ownership in the success of the group, and the culture of PDT remains very down-to-earth and collegial. New members work directly with more experienced colleagues in an atmosphere of respect and mentorship. Diversity of background, experience, and interests defines the group's vitality. *Bloomberg Markets Magazine* August 2011 issue offers a [profile](#) of our team.