Sergey Mouzykin

631-521-1687 | smouzykin@gmail.com | LinkedIn | GitHub | Portfolio

Versatile and results-driven professional with a strong background in quantitative development, finance industry experience, and proficiency in Python, KDB+/Q, R, SQL, HTML, CSS, and JavaScript. Skilled in developing tools, automating processes, and utilizing frameworks/libraries such as Pandas, NumPy, and Plotly. Adept at collaborating with cross-functional teams, addressing concerns, and delivering exceptional solutions.

Experience

Quantitative Developer | Cognizant - UBS | New York, NY | Jan 2021 - Present

- Collaborated with Swap Traders and Financing Quants to develop tools for tracking daily hedge risk, daily and monthly PnL, efficiency metrics, and automating manual tasks.
- Developed a real-time equity swap hedge rebalancing tool, reducing the rebalancing process time from hours to a few minutes, and resulted in faster execution of over 300 strategies.
- Contributed to the enrichment of Financing Quants' KDB+/Q infrastructure, enabling more accurate and efficient calculations of equity swap cashflows.
- Utilize KDB+/Q to query and wrangle large amounts of data while performing final aggregations using Python including Pandas and Numpy.
- Migrating dashboards to an Azure cloud environment from Linux environment and redesigning existing webapp for improved performance.
- Leverage Plotly, WebEnaml, Atom, and AgGrid to build interactive dashboards in Azure cloud and on-premises Linux environment using OOP in Python.
- Build and maintain data pipelines that integrate multiple data sources, including Oracle SQL, MSSQL, KDB+/Q, REST APIs, and Databricks, which feed the dashboards used by Swap Traders.

Field Engineer | Certus Controls | New York, NY | Sep 2014 - Jan 2021

- Implemented HVAC control strategies and developed graphical controls for high-value buildings in Manhattan.
- Collaborated with clients to understand their requirements, address concerns, troubleshoot technical issues, and ensure customer satisfaction.
- Managed and improved client relations, building strong partnerships to foster long-term business relationships.
- Successfully completed projects on time and within allocated resources, demonstrating effective project management skills.
- Installed, maintained, and programmed building automation control hardware to optimize system performance.
- Conducted training sessions and provided technical support to clients, ensuring seamless integration and operation of control systems.
- Demonstrated exceptional problem-solving abilities to resolve complex technical issues and deliver efficient solutions.
- Prioritized safety protocols and adhered to relevant regulations to ensure a safe working environment.

Education

MS in Analytics, Georgia Institute of Technology (Expected Completion 2025)
BS in Mechanical Engineering, Hofstra University (May 2011)

Certifications

Analytics: Essential Tools and Methods MicroMasters, edX (Dec 2020)
Data Science Nanodegree, Udacity (March 2020)
Python 3 Programming, Coursera (May 2019)
Introduction to Data Science, Springboard (Jan 2018)