

# Sergey Mouzykin

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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.

## Professional 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.

## **Technical Skills**

- Programming Languages: Python, KDB+/Q, R, SQL, HTML, CSS, JavaScript, Java
- Python Libraries/Frameworks: Pandas, NumPy, SciPy, Statsmodels, Sci-kit Learn, Matplotlib, Seaborn, Flask, Plotly, Dash, AgGrid
- Database Technologies: Oracle SQL, MSSQL, KDB+/Q
- Cloud Environment: Azure
- Other Tools and Technologies: Git, Agile, JIRA, UNIX, WebEnaml, Atom, AgGrid, REST APIs, Databricks

## **Soft Skills:**

- Excellent customer service and relationship management.
- Strong communication skills to effectively collaborate with clients and team members.
- Problem-solving abilities to address technical issues and provide efficient solutions.
- Time management and organizational skills for successful project completion.
- Training and mentoring capabilities for new staff members.

## **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)