

Ilyas Ibragimov

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SUMMARY

Financial technology developer with 5+ years of hedge-fund experience building scalable data pipelines and analytics solutions. Expertise in ETL/ELT architecture, cloud infrastructure, and performance optimization. Proven track record of delivering data-driven applications that improve decision-making processes and operational efficiency.

EXPERIENCE

Software Developer

Two Sigma

November 2022 - Present, New York, NY (Remote)

- Spearheaded back-end development of a firm-wide total cost tracking system using dbt and BigQuery, delivering real-time cost visibility that directly informed C-level strategic decisions and optimized resource allocation across all departments.
- Designed and deployed automated Python and Bash-based ELT data loader tooling, integrating 8+ critical cost data sources (Jira, Datadog, AWS S3, CMDB, etc) into BigQuery and PostgreSQL, enhancing cost transparency by 40%, and powering the comprehensive cost analytics system that tracked \$50M+ in annual spending.
- Strategically transitioned the firm's pipelines from Apptio to dbt and BigQuery, achieving over \$1MM in annual cost savings utilizing Python and SQL while reducing data processing time by 65%.
- Optimized the total-cost tracking system to efficiently process 100+ TB of cloud usage data daily, accelerating cost insights and enabling real-time cloud spend management.
- Championed data engineering excellence by leading interactive dbt workshops, delivering compelling live-demos of cost analytics, and creating comprehensive documentation that accelerated adoption of best practices across multiple departments.
- Partnered with teams across departments to enhance cost data automation, providing hands-on coaching that aligned technical implementations with the firm's cost visibility goals.

Software Developer

Blueshift Asset Management

January 2020 - November 2022, Red Bank, NJ

- Engineered a comprehensive portfolio monitoring ecosystem featuring a real-time terminal-based GUI for intraday analytics, automated daily investor reporting tools, and robust historical performance tracking capabilities that reduced analysis time by 65% and supported \$500M+ in managed assets.
- Overhauled the fund's proprietary C++ trading platform by implementing performance-critical optimizations that reduced storage requirements by hundreds of terabytes, decreased production server load by 40%, and streamlined developer workflows, directly enhancing trading capabilities.
- Built Python/Selenium based web-scrappers delivering market data that directly powered trading algorithms and investment research.
- Engineered direct programmatic connections to multiple equity and crypto exchanges, streamlining order execution and market data acquisition that substantially expanded the fund's trading liquidity.
- Designed a real-time compliance monitoring system that automatically flags trading violations, preventing transactions involving restricted securities and safeguarding the firm against regulatory penalties.

Research Associate

St. Petersburg State University

June 2017 - July 2019, Remote

- Engineered, deployed, and maintained the research group's flagship website using the Python-based Django web framework, along with Javascript, HTML and CSS, enhancing visibility and access to critical resources.
- Developed custom statistical analysis tools in Python and MATLAB to implement novel inference methods, accelerating research.

Platform Development Intern

Fidessa

July 2018 - September 2018, Woking, UK

- Engineered a secure file transmission platform using JavaScript, jQuery, HTML, CSS, Java, and TCL that eliminated recurring data breaches, protected confidential client information for 200+ clients, and replaced vulnerable manual processes.

EDUCATION

Master of Engineering (MEng Electronic & Electrical)

Minor in Intelligent Systems · University College London (UCL) · London, UK · 2015 - 2019
· First Class Honors (4.0 GPA Equivalent)

High School Diploma, Mathematics Major

Brooklyn Technical High School · Brooklyn, NY · 2011 - 2015 · 4.0 GPA
· Math Team

PROJECTS

Network Packet Routing with Deep Reinforcement Learning - MEng Final Thesis, First Class Honors

University College London (UCL)

· Optimized network packet routing by creating and implementing advanced deep reinforcement learning models, enhancing the networking efficiency and effectiveness of software-defined networks using Python, OpenAI Gym, and TensorFlow.

Deep Learning Applications in Cryptocurrency Trading - BEng Final Thesis, First Class Honors

University College London (UCL)

· Enhanced predictive accuracy for cryptocurrency returns through thorough testing and refinement of LSTM networks with Python/Keras, utilizing extensive data mining processes.

CERTIFICATIONS

C++ Programming for Financial Engineering Certificate - Distinction

Baruch College MFE Program · 2021

· Equips industry professionals with essential C++ programming skills applied to quantitative finance.

SKILLS

Languages & Database Technologies: Python, SQL, Bash, C++, JavaScript

Data Engineering & Analytics: dbt, BigQuery, PostgreSQL, Pandas, NumPy, ETL/ELT Pipelines

Cloud & Infrastructure: Google Cloud Platform, AWS

Web Technologies: Django, Flask, Selenium, RESTful APIs, HTML/CSS, Bootstrap

Developer Tools: Git, GitHub, GitLab, CI/CD, Jira, VS Code, Vim

Technical Expertise: Data Warehousing, Data Pipeline Architecture, Web Scraping, Machine Learning Integration
