Jacob Kulik

Brooklyn, NY · linkedin.com/in/jacob-kulik/ · github.com/kulikj · kulikj.com
(718) 308-6160 · kulikjacob1@gmail.com

Education

Northeastern University, **Khoury College of Computer Sciences**, Boston, MA — Sep 2021 – May 2025
Bachelor of Science in Data Science and Business Administration, Concentration in Finance — GPA: 3.99/4.00
Relevant Coursework: Machine Learning 1 & 2, Advanced Programming with Data, Portfolio Management, Database Design, Financial Econometrics, Financial Data Analytics, Foundations of Data Science, Copenhagen Business School - Investments

Work Experience

Lord, Abbett & Co., *Incoming Investment Risk Associate*, Jersey City, NJ — Jun 2025 – Present

Arrowstreet Capital, *Portfolio Management Co-op*, Boston, MA — Jul 2024 – Dec 2024
- Constructed fee schedule model with K-means clustering to classify broker tiers and explain routing behavior using Sklearn
- Implemented portfolio monitoring tool to track idiosyncratic risk contributors via Dask and SciPy for external-facing PMs
- Estimated stock loan fees using prime broker rate data to evaluate portfolio shorting costs with PySpark and Statsmodels
- Developed regression model to estimate trading fees using liquidity tags, achieving 96% R-squared with PySpark MLlib
- Optimized minimum portfolio cash levels by performing OLS regressions to predict overdraft probabilities using Statsmodels

Credit Suisse, *HOLT Portfolio & Quantitative Strategy Co-op*, New York, NY — Jul 2023 – Dec 2023
- Launched portfolio analysis tool leveraging HOLT factor library to improve client prep workflow using Plotly Dash and SQL
- Engineered interactive dashboards to analyze HOLT and traditional quality alpha factors across stock baskets with Dash
- Enhanced ML model, achieving 91% accuracy in classifying management incentive plans across sectors with Sklearn
- Deployed chatbot to answer HOLT framework questions by conducting transfer learning on BERT model with HuggingFace
- Analyzed 25+ equity portfolios for institutional PMs, applying factor framework to construct opportunity and risk screens

Khoury College of Computer Sciences, *Data Science Teaching Assistant*, Boston, MA — Dec 2021 – Apr 2025
- Facilitated discussion through weekly office hours and Piazza threads for 500 students in DS2000: Programming with Data
- Instructed 50 students in 2 CS practicum sections, grading and providing individualized feedback on homework and projects
- Collaborated with professors to develop visualization projects and quizzes covering introductory programming concepts

Chess.com, *Partner Twitch Streamer*, Remote — Nov 2020 – Oct 2023
- Developed educational channel focusing on Blitz and Bullet chess with over 4k followers, 900k total views across platforms
- Produced video content, consistently ranked in the top 50 English chess channels on Twitch for viewership and growth
- Hosted Chess.com/tv programs for thousands of viewers, creating video content that was promoted on Chess.com site

Leadership Experience

TAMID Group - Tech Consulting, *Director of Tech Consulting, Lead Developer*, Boston, MA — Sep 2022 – Dec 2024
- Drove team of 3 developers in the construction of codebase for Alia, a startup replacing traditional e-commerce pop-ups
- Enhanced AI-generated lesson pop-ups using TypeScript and GPT-3.5 to improve conversion rate with customer education
- Presented CEO with innovative prompt engineering and lesson creation code to enhance the Shopify merchant experience

Disrupt - The FinTech Initiative, *Vice President*, Boston, MA — Dec 2021 – May 2023
- Led executive board of 22 students to execute 20+ speaker events and develop financial literacy mobile application
- Designed and taught 3-part Python workshop series covering Pandas library and Yahoo! Finance API for 200+ total students
- Restructured curriculum for 8-week FinTech venture-building program to funnel directly into venture accelerator IDEA

Projects

FinViz - Balance Sheet Visualizer — Jan 2023 – Apr 2023
- Engineered interactive tool visualizing 10-K line item trends using CSS and D3.js for students in introductory finance classes
- Implemented time-series and cross-sectional analysis with filters and tooltips to allow for comparisons across firms and years

ReceipTrack - Receipt Image Processing — Oct 2022 – Dec 2022
- Developed dashboard web app tool in team of 4 that analyzes receipt images using OCR to produce shopping habit insights
- Incorporated object-oriented design and Plotly Dash to visualize spending trends over time and across food groups

Additional Information

Activities: Summa Cum Laude, DATA Research Lab, Collegiate Chess League Division 3 Champion (NEU A Board 1), Hillel
Skills: Python, SQL, Git, PySpark, Pandas, NumPy, Sklearn, Statsmodels, SciPy, AWS Glue, Flask, MongoDB, R | Fluent in Russian
Interests: DJing (50+ Events, 20+ Venues), National Parks, Fantasy Premier League, Spikeball, Cycling, Billiards, Backgammon